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- (54) Structure of a glucocorticoid receptor ligand binding domain comprising an expanded binding pocket and methods employing same

(57) A solved three-dimensional crystal structure of a glucocorticord receptor (GR) α ligand binding domain polypeptide is disclosed, in the form of a crystalline glucocorticord receptor α ligand binding domain polypeptide in complex with the ligand fluticasone propionate (FP) and a peptide derived from the co-activator TIF2. The GR/FP/TIF2 structure includes an expanded binding pocket not seen in other GR structures. Methods of designing steroid and non-steroid modulators of the bi-

ological activity of GR and other nuclear receptors (NRs) are also disclosed. In another aspect of the present invention homology models of androgen receptor (AR), progesterone receptor (PR) and mineralcorticoid receptor (MR) are disclosed, as well as methods of forming homology models for other NRs. Methods of forming a soluble GR/FP/TIF2 complex are also disclosed.

Description

Technical Field

[0001] The present invention relates generally to a glucocorticoid receptor polypeptide, to a glucocorticoid receptor ligand binding domain polypeptide, and to the structure of a glucocorticoid receptor ligand binding domain bound to fluticasone propionate and a co-activator peptide. This stucture reveals an expanded binding pocket having a configuration and volume not observed in other GR structures, which explains the observed binding of some ligands to GR. In one aspect, the invention relates to methods by which a soluble complex comprising glucocorticoid ligand binding domain, fluticasone propionate and a co-activator can be generated. Methods by which modulators and ligands of nuclear receptors, particularly steroid receptors, and more particularly glucosteroid receptors, and the ligand binding domains thereof, can be identified are also disclosed. The invention further relates to homology models of nuclear receptors, preferably the ligand binding domains of nuclear receptors, which can be generated using the structure of a glucocorticoid receptor of the present invention, as well as docking models of an association between a ligand and a nuclear receptor.

	Abbreviations
ATP	adenosine triphosphate
ADP	adenosine diphosphate
APS	Advanced Photon Source
AR	androgen receptor
CAT	chloramphenicol acyltransferase
CCD	charge-coupled device
cDNA	complementary DNA
DBD	DNA binding domain
DEX	dexamethasone
DHT	dihydrotestosterone
DMSO	dimethyl sulfoxide
DNA	deoxyribonucleic acid
DTT	dithiothreitol
EDTA	ethylenediaminetetraacetic acid
ER	estrogen receptor
FP	fluticasone propionate
GR	glucocorticoid receptor
GRα	glucocorticoid receptor α
GRE	glucocorticoid responsive element
HEPES	N-2-hydroxyethylpiperazine-N'-2-ethanesulfonic acid
HSP	heat shock protein
kDa	kilodalton(s)
LBD	ligand binding domain
MM	molecular mechanics
MR	mineralcorticoid receptor
NDP	nucleotide diphosphate
NID	nuclear receptor interaction domain
NR	nuclear receptor
NTP	nucleotide triphosphate
PAGE	polyacrylamide gel electrophoresis
PCR	polymerase chain reaction
PG	progesterone
p!	isoelectric point
PPAR	peroxisome proliferator-activated receptor
PR	progesterone receptor
QSAR	quantitative structure-activity relationship

(continued)

Abbreviations			
RAR	retinoid acid receptor		
RXR	retinoid X receptor		
SAR	structure-activity relationship		
SDS	sodium dodecyl sulfate		
SDS-PAGE	sodium dodecyl sulfate polyacrylamide gel electrophoresis		
SR	steroid receptor		
TIF2	transcription intermediary factor 2		
TR	thyroid receptor		
VDR	vitamin D receptor		

Amino Acid Abbreviations				
Single-Letter Code	Three-Letter Code	Name		
Α	Ala	Alanine		
V	Val	Valine		
L	Leu	Leucine		
1	lle	Isoleucine		
Р	Pro	Proline		
F	Phe	Phenylalanine		
w	Trp	Tryptophan		
М	Met	Methionine		
G	Gly	Glycine		
S	Ser	Serine		
Т	Thr	Threonine		
С	Cys	Cysteine		
` Y	Tyr	Tyrosine		
N	Asn	Asparagine		
Q	Gln	Glutamine		
D	Asp	Aspartic Acid		
E	Glu	Glutamic Acid		
κ	Lys	Lysine		
R	Arg	Arginine		
Н	His	Histidine		

Functionally Equivalent Codons

45	Amino Acid	Codons

	Alanine	Ala	Α	GCA GCC GCG GCU
5	Cysteine	Cys	С	UGC UGU
Ū	Aspartic Acid	Asp	D	GAC GAU
	Glumatic acid	Glu	E	GAA GAG
10	Phenylalanine	Phe	F	UUC UUU
	Glycine	Gly	G	GGA GGC GGG GGU
	Histidine	His	Н	CAC CAU
15	Isoleucine	lle	1	AUA AUC AUU
	Lysine	Lys	K	AAA AAG
	Methionine	Met	М	AUG
20	Asparagine	Asn	N	AAC AAU
	Proline	Pro	Р	CCA CCC CCG CCU
	Glutamine	Gln	Q	CAA CAG
25	Threonine	Thr	T	ACA ACC ACG ACU
	Valine	Val	V	GUA GUC GUG GUU
	Tryptophan	Trp	W	UGG
30	Tyrosine	Tyr	Υ	UAC UAU
	Leucine	Leu	L	UUA UUG CUA CUC
35				CUG CUU
33	Arginine	Arg	R	AGA AGG CGA CGC
				CGG CGU
40	Serine	Ser	S	ACG AGU UCA UCC
				UCG UCU

Background Art

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[0002] Nuclear receptors represent a superfamily of proteins that specifically bind a physiologically relevant small molecule, such as a hormone or vitamin. As a result of a molecule binding to a nuclear receptor, the nuclear receptor changes the ability of a cell to transcribe DNA, i.e. nuclear receptors modulate the transcription of DNA. However, they can also have transcription independent actions.

[0003] Unlike integral membrane receptors and membrane-associated receptors, nuclear receptors reside in either the cytoplasm or nucleus of eukaryotic cells. Thus, nuclear receptors comprise a class of intracellular, soluble, ligand-regulated transcription factors. Nuclear receptors include but are not limited to receptors for androgens, mineralcorticoids, progestins, estrogens, thyroid hormones, vitamin D, retinoids, eicosanoids, peroxisome proliferators and, pertinently, glucocorticoids. Many nuclear receptors, identified by either sequence homology to known receptors (See, e. g., Drewes et al., (1996) Mol. Cell. Biol. 16:925-31) or based on their affinity for specific DNA binding sites in gene promoters (See, e.g., Sladek et al., Genes Dev. 4:2353-65), have unascertained ligands and are therefore commonly termed "orphan receptors."

[0004] Glucocorticoids are an example of a cellular molecule that has been associated with cellular proliferation.

Glucocorticoids are known to induce growth arrest in the G1-phase of the cell cycle in a variety of cells, both *in vivo* and *in vitro*, and have been shown to be useful in the treatment of certain cancers. The glucocorticoid receptor (GR) belongs to an important class of transcription factors that after the expression of target genes in response to a specific hormone signal. Accumulated evidence indicates that receptor associated proteins play key roles in regulating glucocorticoid signaling. The list of cellular proteins that can bind and co-purify with the GR is constantly expanding.

[0005] Glucocorticoids are also used for their anti-inflammatory effect on the skin, joints, and tendons. They are important for treatment of disorders in which inflammation is thought to be caused by immune system activity. Representative disorders of this sort include but are not limited to rheumatoid arthritis, inflammatory bowel disease, glomer-ulonephritis, and connective tissue diseases like systemic lupus erythmatosus. Glucocorticoids are also used to treat asthma (e.g. fluticasone propionate, a component of the asthma medication ADVAIRTM marketed by GlaxoSmithKline) and are widely used with other drugs to prevent the rejection of organ transplants. Some cancers of the blood (leuke-mias) and lymphatic system (lymphomas) can also respond to corticosteroid drugs.

[0006] Glucocorticoids exert several effects in tissues that express receptors for them. They regulate the expression of several genes either positively or negatively and in a direct or indirect manner. They are also known to arrest the growth of certain lymphoid cells and in some cases cause cell death (Harmon et al., (1979) J. Cell Physiol. 98: 267-278; Yamamoto, (1985) Ann. Rev. Genet. 19: 209-252; Evans, (1988) Science 240:889-895; Beato, (1989) Cell 56:335-344; Thompson, (1989) Cancer Res. 49: 2259s-2265s.). Due in part to their ability to kill cells, glucocorticoids have been used for decades in the treatment of leukemias, lymphomas, breast cancer, solid tumors and other diseases involving irregular cell growth, e.g. psoriasis. The inclusion of glucocorticoids in chemotherapeutic regimens has contributed to a high rate of cure of certain leukemias and lymphomas which were formerly lethal (Homo-Delarche, (1984) Cancer Res. 44: 431-437). Although it is clear that glucocorticoids exert these effects after binding to their receptors, the mechanism of killing cells is not completely understood, although several hypotheses have been proposed. Among the more prominent hypotheses are: the deinduction of critical lymphokines, oncogenes and growth factors; the induction of supposed "lysis genes;" alterations in calcium ion influx; the induction of endonucleases; and the induction of a cyclic AMP-dependent protein kinase (McConkey et al., (1989) Arch. Biochem. Biophys. 269: 365-370; Cohen & Duke, (1984) J. Immunol. 152: 38-42; Eastman-Reks & Vedeckis, (1986) Cancer Res. 46: 2457-2462; Kelso & Munck, (1984) J. Immunol. 133:784-791; Gruol et al., (1989) Molec. Endocrinol. 3: 2119-2127; Yuh & Thompson. (1989) J. Biol. Chem. 264: 10904-10910).

[0007] Fluticasone propionate (FP) is a coricosteroid that forms one active component of the GlaxoSmithKline product ADVAIRTM, which is indicated for treatment of asthma. Fluticasone propionate is a GR modulator. As an asthma medicine, fluticasone propionate reduces swelling and inflammation inside the lungs of a patient. The precise mechanism of this effect is not presently known. Fluticasone propionate has been found to have an affinity for GR 18 times that of dexamethasone, another commonly employed corticosteroid. The present invention offers some insight into this observed pattern of affinity for GR.

[0008] Polypeptides, e.g. the glucocorticoid receptor ligand binding domain, have a three-dimensional structure determined by the primary amino acid sequence and the environment surrounding the polypeptide. This three-dimensional structure establishes the polypeptide's activity, stability, binding affinity, binding specificity, and other biochemical attributes. Thus, knowledge of a protein's three-dimensional structure can provide much guidance in designing agents that mimic, inhibit, or improve its biological activity.

[0009] The three-dimensional structure of a polypeptide can be determined in a number of ways. Many of the most precise methods employ X-ray crystallography (See. e.g., Van Holde, (1971) Physical Biochemistry. Prentice-Hall, New Jersey, pp. 221-39). This technique relies on the ability of crystalline lattices to diffract X-rays or other forms of radiation. Diffraction experiments suitable for determining the three-dimensional structure of macromolecules typically require high-quality crystals. Unfortunately, such crystals have been unavailable for the ligand binding domain of a human glucocorticoid receptor, as well as many other proteins of interest. Thus, high-quality diffracting crystals of the ligand binding domain of a human glucocorticoid receptor in complex with a ligand would greatly assist in the elucidation of its three-dimensional structure.

[0010] Clearly, the solved crystal structure of the ligand binding domain of a glucocorticoid receptor polypeptide in complex with a ligand and a co-activator peptide would be useful in the process of the rational design of modulators of activity mediated by the glucocorticoid receptor. Evaluation of the available sequence data shows that GR α is particularly similar to MR, PR and AR. The GR α LBD has approximately 56%, 54% and 50% sequence identity to the MR, PR and AR LBDs, respectively. The GR β amino acid sequence is identical to the GR α amino acid sequence for residues 1-727, but the remaining 15 residues in GR β show no significant similarity to the remaining 50 residues in GR α . If no X-ray structure were available for GR α , then one could build a model for GR α using the available X-ray structures of PR and/or AR as templates. These theoretical models have some utility, but cannot be as accurate as a true X-ray structure, such as the X-ray structure disclosed here. Because of their limited accuracy, a model for GR α will generally be less useful than an X-ray structure for the design of agonists, antagonists and modulators of GR α .

[0011] Additionally, a solved GRα-co-activator peptide-fluticasone propionate crystal structure would provide struc-

tural details and insights necessary to design a modulator of $GR\alpha$ that maximizes preferred requirements for any modulator, i.e. potency and specificity. By exploiting the structural details obtained from a $GR\alpha$ -co-activator peptide-fluticasone propionate crystal structure, it would be possible to design a $GR\alpha$ modulator that, despite $GR\alpha$'s similarity with other steroid receptors and nuclear receptors, exploits the unique structural features of the ligand binding domain of human $GR\alpha$. A $GR\alpha$ modulator developed using structure-assisted design would take advantage of heretofore unknown $GR\alpha$ structural considerations and thus be more effective than a modulator developed using homology-based design or other $GR\alpha$ structures. Potential or existent homology models or existing crystal structures cannot provide the necessary degree of specificity. A $GR\alpha$ modulator designed using the structural coordinates of a crystalline form of the ligand binding domain of $GR\alpha$ in complex with fluticasone propionate and a co-activator peptide would also provide a starting point for the development of modulators of other nuclear receptors.

[0012] Although several journal articles have referred to GR mutants having "increased ligand efficacy" in cell-based assays, it has not been mentioned that such mutants could have improved solution properties so that they could provide a suitable reagent for purification, assay, and crystallization. See Garabedian & Yamamoto, (1992) Mol. Biol. Cell 3: 1245-1257; Kralli et al., (1995) Proc. Natl. Acad. Sci. 92: 4701-4705; Bohen, (1995) J. Biol. Chem. 270: 29433-29438; Bohen, (1998) Mol. Cell. Biol. 18: 3330-3339; Freeman et al., (2000) Genes Dev. 14: 422-434.

[0013] Indeed, it is well documented that GR associates with molecular chaperones (e.g. heat shock proteins (HSPs) such as hsp90, hsc70, and p23). In the past, it has been considered that GR would either not be active or soluble if purified away from these binding partners. In fact, it has even been mentioned that GR must be in complex with hsp90 in order to adopt a high affinity steroid binding conformation. See Xu et al., (1998) J. Biol. Chem. 273: 13918-13924; Rajapandi et al., (2000) J. Biol. Chem. 275: 22597-22604.

[0014] Still other journal articles have reported *E.coli* expression of GST-GR, but also noted a failure to purify the purported polypeptide. See Ohara-Nemoto et al., (1990) *J. Steroid Biochem. Molec. Biol.* 37: 481-490; Caamano et al., (1994) *Annal. NYAcad. Sci.* 746: 68-77.

[0015] The structure of GR in complex with dexamethasone was previously solved ("the Dex structure"), the atomic coordinates of which are presented in Table 3. While offering unprecedented insight into the structure of GR in complex with a ligand, this structure does not adequately answer the question surrounding the higher affinity of GR for FP than for dexamethasone. Nor does the GR/Dex structure explain the structural requirements for association of FP with GR and other NRs. For example, examination of the GR/Dex structure initially suggests that the binding pocket of GR, AR, MR and PR is too small to accommodate the FP ligand. Nor can available GR, AR, MR and PR models adequately explain the mode of FP association with these NRs. Examination of these models indicates that the ligand binding pocket is sterically limited in its ability to accommodate FP and other ligands, such as steroidal molecules having large substituents at the C-17 α position and non-steroidal molecules having substituents predicted to fill the same space as would be filled by the proprionate group of FP. These larger ligands, including FP, are nonetheless known to bind these NRs, presumably by expanding the ligand binding pocket in some way. Until the disclosure of the present invention, the details of this expansion, including the identity of movements of structural features of a GR protein, were not known, and would have been exceptionally difficult to predict with protein modelling software. A crystal structure of FP in complex with GR would provide insight into the binding of larger ligands to not only GR, but other NRs as well, including AR, MR and PR. Such a structure could also form a basis for the construction of homology models and docking models of these and other nuclear receptors.

[0016] Importantly, a GR/FP structure could be employed in modulator design. This structure would be particularly valuable because it would provide insight into the structural features of GR that are involved in binding FP. Since available structures and models cannot adequately account for the binding of FP and certain other ligands and in fact suggest that, based on a steric evaluation of the ligand-receptor interaction, such binding would not be likely to be productive, a solved structure of GR in complex with FP would be of particular value to researchers involved with the rational design of NR modulators, particularly modulators of GR, AR, PR and MR. Further, such a structure could form the basis of one or more homology models and docking models; these models would be particularly valuable since they would account for receptor-specific features that a general NR model could not. The generation of such models would be of assistance in designing receptor-specific modulators.

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[0017] What is needed, therefore, is a purified, soluble $GR\alpha$ LBD polypeptide in complex with a steroidal ligand having a substituent larger than a hydroxyl group at the $C17-\alpha$ position, preferably also with a co-activator peptide, for use in structural studies, as well as methods for making the same. Such methods would also find application in the preparation of modified NRs in general.

[0018] What is also needed is a crystallized form of a GR α ligand binding domain, preferably in complex with fluticasone propionate and a co-activator peptide. Acquisition of crystals of the GR α ligand binding domain polypeptide in complex with fluticasone propionate and a co-activator peptide facilitates a determination of a three-dimensional structure of a GR α ligand binding domain (LBD) polypeptide in the conformation adopted by GR α when it binds fluticasone propionate and a co-activator peptide. Knowledge of this three dimensional structure can facilitate the design of modulators of GR-mediated activity. Such modulators can lead to therapeutic compounds to treat a wide range of conditions,

including inflammation, tissue rejection, auto-immunity, malignancies such as leukemias and lymphomas, Cushing's syndrome, acute adrenal insufficiency, congenital adrenal hyperplasia, rheumatic fever, polyarteritis nodosa, granulomatous polyarteritis, inhibition of myeloid cell lines, immune proliferation/apoptosis, HPA axis suppression and requlation, hypercortisolemia, modulation of the TH1/TH2 cytokine balance, chronic kidney disease, stroke and spinal cord injury, hypercalcemia, hypergylcemia, acute adrenal insufficiency, chronic primary adrenal insufficiency, secondary adrenal insufficiency, congenital adrenal hyperplasia, cerebral edema, thrombocytopenia, Little's syndrome, inflammatory bowel disease, systemic lupus erythematosus, polyartitis nodosa, Wegener's granulomatosis, giant cell arteritis, rheumatoid arthritis, osteoarthritis, hay fever, allergic minitis, urticaria, angioneurotic edema, chronic obstructive pulmonary disease, asthma, tendonitis, bursitis, Crohn's disease, ulcerative colitis, autoimmune chronic active hepatitis, organ transplantation, hepatitis, cirrhosis, inflammatory scalp alopecia, panniculitis, psoriasis, discoid lupus erythematosus, inflamed cysts, atopic dermatitis, pyoderma gangrenosum, pemphigus vulgaris, bullous pemphigoid, systemic lupus erythematosus, dermatomyositis, herpes gestationis, eosinophilic fasciitis, relapsing polychondritis, inflammatory vasculitis, sarcoidosis, Sweet's disease, type 1 reactive leprosy, capillary hemangiomas, contact dermatitis, atopic dermatitis, lichen planus, exfoliative dermatitus, erythema nodosum, acne, hirsutism, toxic epidermal necrolysis, erythema multiform, cutaneous T-cell lymphoma. Other applications of a GR modulator developed in accordance with the present invention can be employed to treat Human Immunodeficiency Virus (HIV), cell apoptosis, and can be employed in treating cancerous conditions including, but not limited to, Kaposi's sarcoma, immune system activation and modulation, desensitization of inflammatory responses, IL-1 expression, natural killer cell development, lymphocytic leukemia, treatment of retinitis pigmentosa. Other applications for such a modulator comprise modulating cognitive performance, memory and learning enhancement, depression, addiction, mood disorders, chronic fatigue syndrome, schizophrenia, stroke, sleep disorders, anxiety, immunostimulants, repressors, wound healing and a role as a tissue repair agent or in anti-retroviral therapy.

Summary of the Invention

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[0019] A crystalline GR polypeptide complex comprising an expanded binding pocket is disclosed. Preferably, the crystalline form has lattice constants of of a = b = 127.656 Å, c = 87.725 Å, $\alpha = 90^{\circ}$, $\beta = 90^{\circ}$, $\gamma = 120^{\circ}$. Preferably, the crystalline form is a hexagonal crystalline form. More preferably, the crystalline form has a space group of P6₁. Even more preferably, the GR ligand binding domain polypeptide comprises the amino acid sequence shown in SEQ ID NOs: 6 and 8. Even more preferably, the GR ligand binding domain has a crystalline structure further characterized by the coordinates corresponding to Table 2.

[0020] Preferably, the GR polypeptide complex comprises a ligand and a co-activator peptide. Optionally, the crystalline form contains two GR ligand binding domain polypeptides in the asymmetric unit. Preferably, the crystalline form is such that the three-dimensional structure of the crystallized GR ligand binding domain polypeptide can be determined to a resolution of about 3.0 Å or better. Even more preferably, the crystalline form contains one or more atoms having a molecular weight of 40 grams/mol or greater.

[0021] A method for determining the three-dimensional structure of a crystallized GR polypeptide complex comprising an expanded binding pocket to a resolution of about 3.0 Å or better is disclosed. In a preferred embodiment, the method comprises: (a) crystallizing a GR ligand binding domain polypeptide; and (b) analyzing the GR ligand binding domain polypeptide to determine the three-dimensional structure of the crystallized GR ligand binding domain polypeptide, whereby the three-dimensional structure of a crystallized GR polypeptide complex comprising an expanded binding pocket is determined to a resolution of about 3.0 Å or better.

[0022] Preferably, the complex comprises a ligand, preferably fluticasone propionate, and a co-activator peptide, preferably a TIF2 peptide. It is also preferable that the GR ligand binding domain polypeptide comprises the amino acid sequence of SEQ ID NOs: 6 and 8, and that the TIF2 peptide comprises SEQ ID NO: 9. Even more preferably, the three-dimensional structure is further characterized by the coordinates corresponding to Table 2.

[0023] A method of generating a crystallized GR polypeptide complex comprising an expanded binding pocket and a ligand known or suspected to be unable to associate with a known GR structure is disclosed. In a preferred embodiment, the method comprises: (a) providing a solution comprising a GR polypeptide and a ligand known or suspected to be unable to associate with a known GR structure; and (b) crystallizing the GR ligand binding domain polypeptide using the hanging drop method, whereby a crystallized GR polypeptide complex comprising an expanded binding pocket and a ligand known or suspected to be unable to associate with a known GR structure is generated.

[0024] Preferably, the complex comprises a ligand, preferably fluticasone propionate, and a co-activator peptide, preferably a TIF2 peptide. It is also preferable that the GR ligand binding domain polypeptide comprises the amino acid sequence of SEQ ID NOs: 6 or 8, and that the TIF2 peptide comprises SEQ ID NO: 9. Even more preferably, the complex is further characterized by the coordinates corresponding to Table 2.

[0025] A method for identifying a GR modulator is disclosed. In a preferred embodiment, the method comprises: (a) providing atomic coordinates of a GR polypeptide complex comprising an expanded binding pocket to a computerized

modeling system; and (b) modeling a ligand that fits spatially into the large pocket volume of the GR polypeptide complex to thereby identify a GR modulator.

[0026] Preferably, the complex comprises a ligand, preferably fluticasone propionate, and a co-activator peptide, preferably a TIF2 peptide. It is also preferable that the GR polypeptide comprises the amino acid sequence of SEQ ID NOs: 6 or 8, and that the TIF2 peptide comprises SEQ ID NOs: 9. Even more preferably, the complex is further characterized by the coordinates corresponding to Table 2.

[0027] A method of designing a modulator that selectively modulates the activity of a GR α polypeptide comprising an expanded binding pocket is disclosed. In a preferred embodiment, the method comprises: (a) providing a crystalline form of a GR α polypeptide complex comprising an expanded binding pocket; (b) determining the three-dimensional structure of the crystalline form of the GR α ligand binding domain polypeptide; and (c) synthesizing a modulator based on the three-dimensional structure of the crystalline form of the GR α ligand binding domain polypeptide, whereby a modulator that selectively modulates the activity of a GR α polypeptide comprising an expanded binding pocket is designed.

[0028] Preferably, the complex comprises a ligand, preferably fluticasone propionate, and a co-activator peptide, preferably a TIF2 peptide. It is also preferable that the GR ligand binding domain polypeptide comprises the amino acid sequence of SEQ ID NOs: 6 or 8, and that the TIF2 peptide comprises SEQ ID NO: 9. Even more preferably, the three-dimensional structure is further characterized by the coordinates corresponding to Table 2.

[0029] A method of forming a homology model of an NR is disclosed. In a preferred embodiment, the method comprises: (a) providing a template amino acid sequence comprising a GR polypeptide comprising an expanded binding pocket; (b) providing a target NR amino acid sequence; (c) aligning the target sequence and the template sequence to form a homology model.

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[0030] Preferably, the GR polypeptide comprises the amino acid sequence of SEQ ID NOs: 6 or 8, and that the TIF2 peptide comprises SEQ ID NO: 9.

[0031] A method of designing a modulator of a nuclear receptor is disclosed. In a preferred embodiment, the method comprises: (a) designing a potential modulator of a nuclear receptor that will make interactions with amino acids in the ligand binding site of the nuclear receptor based upon atomic structure coordinates of a NR polypeptide complex comprising an expanded binding pocket; (b) synthesizing the modulator; and (c) determining whether the potential modulator modulates the activity of the nuclear receptor, whereby a modulator of a nuclear receptor is designed.

[0032] Preferably, the complex comprises a ligand, preferably fluticasone propionate, and a co-activator peptide, preferably a TIF2 peptide. It is also preferable that the NR polypeptide comprises the amino acid sequence of SEQ ID NOs: 6 or 8, and that the TIF2 peptide comprises SEQ ID NO: 9. Even more preferably, the atomic structural coordinates are further characterized by the coordinates corresponding to Table 2.

[0033] A method of modeling an interaction between an NR and a non-steroid ligand is disclosed. In a preferred embodiment, the method comprises: (a) providing a homology model of a target NR generated using a crystalline GR polypeptide complex comprising an expanded binding pocket; (b) providing atomic coordinates of a non-steroid ligand; and (c) docking the non-steroid ligand with the homology model to form a NR/ligand model.

[0034] Preferably, the complex comprises a ligand, preferably fluticasone propionate, and a co-activator peptide, preferably a TIF2 peptide. It is also preferable that the GR polypeptide comprises the amino acid sequence of SEQ ID NOs: 6 or 8, and that the TIF2 peptide comprises SEQ ID NOs: 9. Even more preferably, the complex is further characterized by the coordinates corresponding to Table 2.

[0035] A method of designing a non-steroid modulator of a target NR using a homology model is disclosed. In a preferred embodiment, the method comprises: (a) modeling an interaction between a target NR and a non-steroid ligand using a homology model generated using a crystalline GR polypeptide complex comprising an expanded binding pocket; (b) evaluating the interaction between the target NR and the non-steroid ligand to determine a first binding efficiency; (c) modifying the structure of the non-steroid ligand to form a modified ligand; (d) modeling an interaction between the modified ligand and the target NR; (e) evaluating the interaction between the target NR and the modified ligand to determine a second binding efficiency; and (f) repeating steps (c)-(e) a desired number of times if the second binding efficiency is less than the first binding efficiency.

[0036] Preferably, the complex comprises a ligand, preferably fluticasone propionate, and a co-activator peptide, preferably a TIF2 peptide. It is also preferable that the GR polypeptide comprises the amino acid sequence of SEQ ID NOs: 6 or 8, and that the TIF2 peptide comprises SEQ ID NO: 9. Even more preferably, the complex is further characterized by the coordinates corresponding to Table 2.

[0037] A data structure embodied in a computer-readable medium is disclosed. In a preferred embodiment, the data structure comprises: a first data field containing data representing spatial coordinates of an NR LBD comprising an expanded binding pocket, wherein the first data field is derived by combining at least a part of a second data field with at least a part of a third data field, and wherein (a) the second data field contains data representing spatial coordinates of the atoms comprising a GR LBD comprising an expanded binding pocket in complex with a ligand; and (b) the third data field contains data representing spatial coordinates of the atoms comprising a NR LBD. Preferably, the data of

the third data field comprises data selected from the data embodied in one of Table 3, Table 8, Table 9 and Table 10. It is also preferable that the GR LBD comprises the amino acid sequence of SEQ ID NOs: 6 or 8, and that the TIF2 peptide comprises SEQ ID NO: 9. Even more preferably, the complex is further characterized by the coordinates corresponding to Table 2.

[0038] A method for designing a homology model of the ligand binding domain of an NR wherein the homology model may be displayed as a three-dimensional image. In a preferred embodiment, the method comprises: (a) providing an amino acid sequence and an crystallographic structure of the ligand binding domain of a GRα polypeptide, (b) modifying said crystallographic structure to take account of differences between the amino acid configuration of the ligand binding domains of the NR on the one hand and the GRα polypeptide on the other hand, (c) verifying the accuracy of the homology model by comparing it with experimentally-determined NR protein and ligand properties, and if required, modifying the homology model for greater consistency with those binding properties.

[0039] A computational method of iteratively generating a homology model of the ligand binding domain of an NR, wherein the homology model is capable of being displayed as a three-dimensional image is disclosed. In a preferred embodiment, the method comprises: (a) entering into a computer a machine readable representation of an amino acid sequence of a ligand binding domain of a target NR polypeptide and a machine readable representation of a crystallographic structure of a ligand binding domain of a GRα polypeptide; (b) identifying a difference between an amino acid configuration of a ligand binding domain of a target NR and a GRα polypeptide; (c) modifying the machine readable representation of the crystallographic structure based on a difference identified in step (b) to thereby form a modified crystallographic structure; (d) comparing the modified crystallographic structure with an experimentally-determined property of one of the target NR and a ligand of the target NR; and (e) repeating steps (b) and (d) a desired number of times.

[0040] Accordingly, it is an object of the present invention to provide a three dimensional structure of the ligand binding domain of a GR. The object is achieved in whole or in part by the present invention.

[0041] An object of the invention having been stated hereinabove, other objects will be evident as the description proceeds, when taken in connection with the accompanying Drawings and Laboratory Examples as best described hereinbelow.

Brief Description of the Drawings

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Figure 1 is an autoradiogram of a polyacrylamide gel depicting the isolation of a GR mutant of the present invention. In this figure, Lane 1 contains the insoluble pellet fraction. Lane 2 contains the soluble supernatant fraction. Lane 3 contains pooled eluent from the initial Ni²⁺ column. Lane 4 contains the sample after thrombin digestion. Lane 5 contains the flow through fraction after reload of the Ni²⁺ column. Lane 6 contains the protein after anion exchange. The positions of molecular mass (kDa) markers are indicated on the left side of the figure. Figure 2 is a ribbon diagram showing an overview of the GR/TIF2/FP dimer complex. The ribbon representation of the two GR LBD is shown with gray and white, respectively, with the N-terminus and the C-terminus of the protein indicated. The fluticasone propionate molecules (FP) and TIF2 coactivator motifs are also identified.

Figure 3 is an electron density map (gray net) for the FP ligand and the surrounding residues (white sticks). The map was calculated with the 2Fo-Fc coefficient and is shown with 1 sigma cutoff. The propionate group of the FP molecule is also indicated.

Figure 4 is a ribbon diagram depicting the superposition of the GR/TIF2/FP and the GR/TIF2/Dex structures and showing the expanded binding pocket formed by rearrangement of helices 3, 6, 7 and 10, and the loop preceeding the AF-2 helix. Arrows indicate structural changes that expand the GR pocket to form an expanded binding pocket. Figure 5A is a cartoon showing a semi-transparent surface representing the available pocket volume in GR subunit A in the GR/TIF2/Dex structure. Residues that surround the pocket are also presented.

Figure 5B is a cartoon showing a semi-transparent surface representing the available pocket volume in GR subunit B in the GR/TIF2/Dex structure. Residues that surround the pocket are also presented.

Figure 6A is a cartoon showing the expanded ligand-binding pocket of GR subunit A in the GR/TIF2/FP structure by a semi-transparent surface representing the available pocket volume. Residues that surround the pocket are also presented.

Figure 6B is a cartoon showing the expanded ligand-binding pocket of GR subunit B in the GR/TIF2/FP structure by a semi-transparent surface representing the available pocket volume. Residues that surround the pocket are also presented.

Figure 7A is a cartoon that uses a semi-transparent surface to show the extra pocket volume that is available to a ligand in the GR/TIF2/FP structure but is not available in the GR/TIF2/Dex structure. Residues around the pocket are also shown. In this figure GR subunit A is depicted.

Figure 7B is a cartoon that uses a semi-transparent surface to show the extra pocket volume that is available to a ligand in the GR/TIF2/FP structure but not available in the GR/TIF2/Dex structure. The surface was generated in the same manner as in Figure 7A. Key residues around the pocket are also shown. In this figure GR subunit B is depicted.

Figure 8A is a schematic representation of molecular interactions between the bound FP ligand and residues in subunit A of the GR protein. The dashed lines depict some of the significant interactions of 5.0 angstroms or less, although several less important interactions have been omitted for clarity.

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- Figure 8B is a schematic representation of molecular interactions between the bound FP ligand and residues in subunit B of the GR protein. The dashed lines depict some of the significant interactions of 5.0 angstroms or less, although several less important interactions have been omitted for clarity.
- Figure 9 is a docking model of the Schering ligand, benzoxazin-1-one, bound to a GR LBD model derived from the GR/TIF2/FP crystal structure. The ligand is shown with a CPK drawing.
- Figure 10 is a stick drawing of the ligand binding pocket of the GR structural model showing various interactions between the benzoxazin-1-one ligand and the amino acid residues that comprise the binding pocket.
- Figure 11 is an orthogonal view of Figure 9 and illustrates the fitting of the p-fluorophenolic side chain of the benzoxazin-1-one into the expanded binding pocket of the GR structural model.
 - Figure 12 is a depiction of the overlay of the GR/TIF2/Dex crystal structure (grey) with the GR/benzoxazin-1-one model (white) comparing the geometries of the ligands and the relative locations of the amino acid side chains that comprise the GR expanded binding pocket.
- Figure 13 a docking model of the A-222977 ligand bound to a GR LBD model generated using the GR/TIF2/FP crystal structure. The ligand is shown as a CPK drawing.
 - Figure 14 is a stick drawing of the ligand binding pocket of the GR structural model showing key interactions between A-222977 and the amino acid residues that comprise the binding pocket.
 - Figure 15 is an orthogonal view of Figure 13 and illustrates the protrusion of methyl-sulfonyl-methoxyl-phenyl side chain of A-222977 into the expanded binding pocket of the GR structural model.
 - Figure 16 is a depiction of the overlay of the GR/Dex crystal structure (grey) with the GR/A-222977 (white) comparing the geometries of the ligands and the relative locations of the amino acid side chains that comprise the GR expanded binding pocket. Figure 17 is a sequence alignment of amino acid residues comprising the ligand binding domains of GR, MR, PR and AR.
- Figure 18A is a ribbon drawing depicting the AR LBD homology model derived from the GR/TIF2/FP crystal struc-
 - Figure 18B is a ribbon diagram depicting a known AR/DHT LBD crystal structure; the ligand binding pocket, rendered as a solid surface, reveals no additional volume and no expanded binding pocket.
 - Figure 19 is a ribbon drawing of a docking model of bicalutamide bound to the LBD of the AR homology model derived from the GR/TIF2/FP crystal stucture. The ligand is shown in a CPK drawing.
 - Figure 20 is an orthogonal view of the structure depicted in Figure 18A and shows the LBD of the AR homology model in complex with bicalutamide.
 - Figure 21 is a stick drawing of the ligand binding pocket of the AR homology model showing interactions between bicalutamide and the amino acid residues that comprise the binding pocket.
- Figure 22 is an orthogonal view of Figure 20 and illustrates the protrusion of the *p*-fluorophenyl group of bicalutamide into the expanded binding pocket of the AR homology model.
 - Figure 23A is a ribbon drawing depicting the PR LBD homology model derived from the GR/TIF2/FP crystal structure; the PR ligand binding pocket, which is rendered as a solid surface, comprises an additional extension, similar to the additional volume of the GR expanded binding pocket.
- Figure 23B is a ribbon diagram depicting a known PR/PG LBD crystal structure; the ligand binding pocket, rendered as a solid surface, reveals no expanded binding pocket.
 - Figure 24 is a ribbon drawing of a docking model of RWJ-60130 bound to the LBD of the PR homology model derived from the GR/TIF2/FP crystal structure. The ligand is shown in a CPK drawing.
 - Figure 25 is an orthogonal view of Figure 23 showing the LBD of the PR homology model bound with RWJ-60130. Figure 26 is a stick drawing of the ligand binding pocket of the PR homology model showing interactions between RWJ-60130 and the amino acid residues that comprise the binding pocket.
 - Figure 27 is an orthogonal view of Figure 25 and illustrates the protrusion of the p-fiodophenyl group of RWJ-60130 into the expanded binding pocket of the PR homology model.
- Figure 28A is a ribbon drawing depicting an MR LBD homology model derived from the GR/TIF2/FP crystal structure; the MR ligand binding pocket, which is rendered as a solid surface, contains an additional extension, similar to that found in the GR expanded binding pocket.
 - Figure 28B is a ribbon drawing depicting an MR LBD homology model derived from the GR/TIF2/FP crystal structure; the PR ligand binding pocket, which is rendered as a solid surface, contains a smaller side pocket, similar to

the GR/Dex ligand binding pocket, which does not show the presence of an expanded binding pocket.

Brief Description of Sequences in the Sequence Listing

5 [0043] SEQ ID NOs: 1 and 2 are, respectively, a DNA sequence encoding a wild type full-length human glucocorticoid receptor (GenBank Accession No. 31679) and the amino acid sequence (GenBank Accession No. 121069) of a human glucocorticoid receptor encoded by the DNA sequence.

[0044] SEQ ID NOs: 3 and 4 are, respectively, a DNA sequence encoding a F602S full-length human glucocorticoid receptor and the amino acid sequence of a human glucocorticoid receptor encoded by the DNA sequence.

[0045] SEQ ID NOs: 5 and 6 are, respectively, a DNA sequence encoding a wild type ligand binding domain of a human glucocorticoid receptor and the amino acid sequence of a human glucocorticoid receptor encoded by the DNA sequence.

[0046] SEQID NOs: 7 and 8 are, respectively, a DNA sequence encoding a ligand binding domain (residues 521-777) of a human glucocorticoid receptor containing a phenylalanine to serine mutation at residue 602 and the amino acid sequence of a human glucocorticoid receptor encoded by the DNA sequence.

[0047] SEQ ID NO: 9 is an amino acid sequence of amino acid residues 740-753 of the human TIF2 protein.

[0048] SEQ ID NO: 10 is an LXXLL motif of a human TIF2 protein.

[0049] SEQ ID NO: 11 is an LLRYLL motif of a human TIF2 protein.

20 Detailed Description of the Invention

[0050] The present invention discloses a crystal stucture of a ligand binding domain of GR in complex with a fluticasone propionate ligand and a peptide derived from the co-actiavtor TIF2. This structure reveals an expanded binding
pocket comprising additional volume that accommodates the propionate moiety of the FP ligand. The presence of this
additional volume is not observed in previous known GR/ligand structures, such as the structure of GR in complex with
dexamethasone (characterized by the atomic coordinates of Table 3). The presence of the additional volume in the
ligand binding pocket, which contributes to an "expanded binding pocket," accounts for observed ligand binding modes
and can form the basis of homology models of GR and other nuclear receptors, including an androgen receptor, a
progesterone receptor and a mineralcorticoid receptor. These homology models also form aspects of the present invention. Additionally, the expanded binding pocket can contribute to docking models that can be employed to understand and clarify the binding of a ligand to a nuclear receptor. Such homology and docking models can be employed
in the design of nuclear receptor modulators.

[0051] The present invention provides for the generation of a complex comprising a soluble GR LBD bound to fluticasone propionate and a TIF2 co-activator peptide. The present invention also provides for the ability to crystallize the above complex and to determine its crystal structure. The GR LBD employed in the present invention comprises a single F602S mutation at residue 602. Thus, an aspect of the present invention comprises the use of both targeted and random mutagenesis of the GR gene to produce a recombinant protein with improved solution characteristics for the purposes of, for example, crystallization, characterization of biologically relevant protein-protein interactions, and compound screening assays. The present invention, which relates to GR LBD mutation F602S as well as other LBD mutations, demonstrates that GR can be overexpressed using an *E.coli* expression system and that active GR protein can be purified, assayed, and crystallized.

[0052] Until disclosure of the present invention presented herein, the ability to obtain crystalline forms of the ligand binding domain of GR (e.g. $GR\alpha$) in complex with fluticasone propionate and a co-activator peptide has not been realized. And until disclosure of the present invention presented herein, a detailed three-dimensional crystal structure of a $GR\alpha$ LBD polypeptide in complex with fluticasone propionate and a co-activator peptide has not been solved. Moreover, nuclear receptor structures known in the art do not comprise an expanded binding pocket and therefore cannot fully explain the observed binding of some known ligands to various NRs.

[0053] In another aspect, the present invention provides for the generation of NR, SR and GR polypeptides and NR, SR or GR mutants (preferably GR α and GR α LBD mutants), and the ability to solve the crystal structures of those that crystallize. Indeed, a GR α LBD having a point mutation was crystallized and solved in one aspect of the present invention. Thus, an aspect of the present invention involves the use of both targeted and random mutagenesis of the GR gene for the production of a recombinant protein with improved solution characteristics for the purpose of crystallization, characterization of biologically relevant protein-protein interactions, and compound screening assays. The present invention, relating to GR LBD F602S and other LBD mutations, shows that GR can be overexpressed using an E.coli expression system and that active GR protein can be purified, assayed, and crystallized.

[0054] In addition to providing structural information, crystalline polypeptides provide other advantages. For example, the crystallization process itself further purifies the polypeptide, and satisfies one of the classical criteria for homogeneity. In fact, crystallization frequently provides unparalleled purification quality, removing impurities that are not re-

moved by other purification methods such as HPLC, dialysis, conventional column chromatography, and other methods. Moreover, crystalline polypeptides are sometimes stable at ambient temperatures and free of protease contamination and other degradation associated with solution storage. Crystalline polypeptides can also be useful as pharmaceutical preparations. Finally, crystallization techniques in general are largely free of problems such as denaturation associated with other stabilization methods (e.g., lyophilization). Once crystallization has been accomplished, crystallographic data provides useful structural information that can assist the design of compounds that can serve as modulators (e.g. agonists or antagonists), as described herein below. In addition, the crystal structure provides information useful to map a ligand binding site, which can then be mimicked by a chemical entity that can serve as an antagonist or agonist.

Definitions

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[0055] Following long-standing patent law convention, the terms "a" and "an" mean "one or more" when used in this application, including the claims.

[0056] As used herein, the term "about," when referring to a value or to an amount of mass, weight, time, volume, concentration or percentage is meant to encompass variations of $\pm 20\%$ or $\pm 10\%$, more preferably $\pm 5\%$, even more preferably $\pm 1\%$, and still more preferably $\pm 0.1\%$ from the specified amount, as such variations are appropriate to perform the disclosed method.

[0057] As used herein, the terms "active position of the AF2 helix" and "active conformation of the AF2 helix" are used interchangeably and mean an AF2 helix having a position and/or orientation similar to that of an AF2 helix in a GR/TIF2/FP structure (e.g. as characterized by the atomic structural coordinates of Table 2), or similar to that of an AF2 helix in a GR/TIF2/Dex structure (e.g. as characterized by the atomic structural coordinates of Table 3). For example, with respect to GR, the "active position" is further characterized in GR by contacts between Leu757 in the AF2 helix and Trp600, Cys736, Phe737 and Phe740 in helices 5, 11, 11 and 11, respectively. The position and/or orientation of an AF2 helix in a structure comprising GR can be compared with that of an AF2 helix in a structure comprising a GR/FP complex by rotating and/or translating the GR structure so as to superimpose the backbone atoms of helices 1 through 10 onto the corresponding backbone atoms of helices 1 through 10 of a GR/TIF2/FP structure. A similar procedure can be employed to compare a structure of GR with that of another nuclear receptor, such as ER α or ER β . If, after superimposition, a majority of the backbone atoms of the core of the AF2 helix of the GR structure, (e.g. residues 752-757), lie within 1.0 angstroms of the position of corresponding backbone atoms of the AF2 helix of the GR/FP structure, then the AF2 helix is defined as being in an active position or active conformation. If more than half of the atoms lie more than 1.0 angstroms from their counterparts in the GR/FP structure, then the AF2 helix is considered to be in a position or conformation different from the active position or conformation.

[0058] In some cases, the AF2 helix might be disordered, or dynamically mobile. If several of the backbone atoms of the AF2 helix residues 752-757 are disordered so that they are not clearly defined in the electron density of an X-ray crystallographic experiment, then the AF2 helix as a whole is defined as assuming multiple positions and/or conformations. This ensemble of alternative positions or conformations might include positions or conformations that could be characterized as "active positions" or "active conformations." However, the disorder indicates that the "active position" or "active conformation" does not constitute an adequate fraction of the ensemble, and in this case the AF2 helix cannot be considered to be in the "active position" or "active conformation".

[0059] Other examples of a nuclear receptor where the AF2 helix is in an "active position" include the X-ray structures of the estrogen receptor α (ERα) bound to estradiol (Brzozowski et al., (1997) *Nature* 389:753) and diethylstilbesterol (DES) (Shiau et al., (1998) *Cell* 95:927). Examples of a nuclear receptor where the AF2 helix is not in an "active position" are the X-ray structures of the estrogen receptor α (ERα) bound to raloxifene (Brzozowski et al., (1997) *Nature* 389: 753) and tamoxifen (Shiau et al., (1998) *Cell* 95:927). Binding of coactivator, and AF2-dependent activation of gene transcription, normally requires that the AF2 helix be in the "active position" (Nolte et al., (1998) *Nature* 395:137; Shiau et al., (1998) *Cell* 95:927). This creates a "charge-clamp" structure that holds the coactivator in its required position (Nolte et al., (1998) *Nature* 395:137). GR antagonists, such as RU-486, would be expected to displace the AF2 helix out of the "active position" and into some other position, such as the coactivator binding site as seen with raloxifene and tamoxifen in ERα (Brzozowski et al., (1997) *Nature* 389:753; Shiau et al., (1998) *Cell* 95:927).

[0060] The movement of the AF2 helix often induces other conformational changes in the protein that might not be compatible with agonist binding or activation of transcription. Also, the movement of the AF2 helix leaves the ligand binding pocket open to the exterior of the protein. These conformational modifications can make the structure unsuitable for structure-based design and docking calculations where the goal is the design of agonists or modulators where the protein remains predominantly in or near the active conformation.

[0061] As used herein, the term "agonist" means an agent that supplements or potentiates the bioactivity of a functional gene or protein or of a polypeptide encoded by a gene that is up- or down-regulated by a polypeptide and/or a polypeptide encoded by a gene that contains a binding site or response element in its promoter region. By way of specific example, an "agonist' is a compound that interacts with the steroid hormone receptor to promote a transcrip-

tional response. An agonist can induce changes in a receptor that places the receptor in an active conformation that allows them to influence transcription, either positively or negatively. There can be several different ligand-induced changes in the receptor's conformation. The term "agonist" specifically encompasses partial agonists.

[0062] As used herein, the terms "\alpha-helix", "alpha-helix" and "alpha helix" are used interchangeably and mean the conformation of a polypeptide chain wherein the polypeptide backbone is wound around the long axis of the molecule in a left-handed or right-handed direction, and the R groups of the amino acids protrude outward from the helical backbone, wherein the repeating unit of the structure is a single turnoff the helix, which extends about 0.56 nm along the long axis.

[0063] As used herein, the term "antagonist" means an agent that decreases or inhibits the bioactivity of a functional gene or protein, or that decrease or inhibit the bioactivity of a naturally occurring or engineered non-functional gene or protein. Alternatively, an antagonist can decrease or inhibit the bioactivity of a functional gene or polypeptide encoded by a gene that is up- or down-regulated by a polypeptide and/or contains a binding site or response element in its promoter region. An antagonist can also decrease or inhibit the bioactivity of a naturally occurring or engineered non-functional gene or polypeptide encoded by a gene that is up- or down-regulated by a polypeptide, and/or contains a binding site or response element in its promoter region. By way of specific example, an "antagonist" is a compound that interacts with the steroid hormone receptor to inhibit a transcriptional response. An antagonist can bind to a receptor but fail to induce conformational changes that alter the receptor's transcriptional regulatory properties or physiologically relevant conformations. Binding of an antagonist can also block the binding and therefore the actions of an agonist. The term "antagonist" specifically encompasses partial antagonists.

[0064] As used herein, the terms "backbone" and "backbone atoms" are the N, Ca, C and O atoms of a protein that are common to all twenty of the amino acids normally present in a protein. See G. E. Schulz and R. H. Schirmer, Principles of Protein Structure, Springer-Verlag, New York.

[0065] As used herein, the terms "β-sheet", "beta-sheet" and "beta sheet" are used interchangeably and mean the conformation of a polypeptide chain stretched into an extended zig-zig conformation. Portions of polypeptide chains that run "parallel" all run in the same direction. Polypeptide chains that are "antiparallel" run in the opposite direction from the parallel chains.

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[0066] As used herein, the terms "binding pocket of an NR ligand binding domain", "NR ligand binding pocket," "NR ligand binding pocket" are used interchangeably, and refer to the large cavity within the NR ligand binding domain where a ligand can bind. This cavity can be empty, or can contain water molecules or other molecules from the solvent, or can contain ligand atoms. The binding pocket includes regions of space near the "main" binding pocket that not occupied by atoms of the NR but that are near the "main" binding pocket, and that are contiguous with the "main" binding pocket. For GR, the main binding pocket comprises the region of space encompassed by the residues shown in Figure 8.

[0067] As used herein, the term "biological activity" means any observable effect flowing from interaction between an NR (preferably a GR) polypeptide and a ligand. Representative, but non-limiting, examples of biological activity in the context of the present invention include transcription regulation, ligand binding and peptide binding.

[0068] As used herein, the terms "candidate substance" and "candidate compound" are used interchangeably and refer to a substance that is believed to interact with another moiety, for example a given ligand that is believed to interact with a complete target NR (preferably a GR) polypeptide or fragment thereof, and which can be subsequently evaluated for such an interaction. Representative candidate substances or compounds include xenobiotics such as drugs and other therapeutic agents, carcinogens and environmental pollutants, natural products and extracts, as well as endobiotics such as glucocorticosteroids, steroids, fatty acids and prostaglandins. Other examples of candidate compounds that can be investigated using the methods of the present invention include, but are not restricted to, agonists and antagonists of a GR polypeptide or other polypeptide, toxins and venoms, viral epitopes, hormones (e. g., glucocorticosteroids, opioid peptides, steroids, etc.), hormone receptors, peptides, enzymes, enzyme substrates, co-factors, lectins, sugars, oligonucleotides or nucleic acids, oligosaccharides, proteins, small molecules and monoclonal antibodies.

[0069] As used herein, the terms "cells," "host cells" or "recombinant host cells" are used interchangeably and mean not only to the particular subject cell, but also to the progeny or potential progeny of such a cell. Because certain modifications can occur in succeeding generations due to either mutation or environmental influences, such progeny might not, in fact, be identical to the parent cell, but are still included within the scope of the term as used herein.

[0070] As used herein, the terms "chimeric protein" or "fusion protein" are used interchangeably and mean a fusion of a first amino acid sequence encoding a target polypeptide with a second amino acid sequence defining a polypeptide domain foreign to, and not homologous with, any domain of a target polypeptide. A chimeric protein can include a foreign domain that is found in an organism that also expresses the first protein, or it can be an "interspecies" or "intergenic" fusion of protein structures expressed by different kinds of organisms. In general, a fusion protein can be represented by the general formula X--target--Y, wherein "target" represents a portion of the protein that is derived from a target polypeptide, and X and Y are independently absent or represent amino acid sequences that are not

related to a target sequence in an organism, including naturally occurring mutants. Representative target polypeptides include, but are not limited to, GR, AR, MR, PR and other NRs.

[0071] As used herein, the term "co-activator" means an entity that has the ability to enhance transcription when it is bound to at least one other entity. The association of a co-activator with an entity has the ultimate effect of enhancing the transcription of one or more sequences of DNA. In the context of the present invention, transcription is preferably nuclear receptor-mediated. By way of specific example, in the present invention TIF2 (the human analog of mouse glucocorticoid receptor interaction protein 1 (GRIP1)) can bind to a site on the glucorticoid receptor, an event that can enhance transcription. TIF2 is therefore a co-activator of the glucocorticoid receptor. Other GR co-activators can include SRC1.

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[0072] As used herein, the term "co-repressor" means an entity that has the ability to repress transcription when it is bound to at least one other entity. In the context of the present invention, transcription is preferably nuclear receptor-mediated. The association of a co-repressor with an entity has the ultimate effect of repressing the transciption of one or more sequences of DNA.

[0073] As used herein, the term "crystal lattice" means the array of points defined by the vertices of packed unit cells.
[0074] As used herein, the term "detecting" means confirming the presence of a target entity by observing the occurrence of a detectable signal, such as a radiologic or spectroscopic signal that will appear exclusively in the presence of the target entity.

[0075] As used herein, the term "DNA segment" means a DNA molecule that has been isolated free of total genomic DNA of a particular species. In a preferred embodiment, a DNA segment encoding a GR polypeptide refers to a DNA segment that comprises any of SEQ ID NOs: 1, 3, 5 and 7, but can optionally comprise fewer or additional nucleic acids, yet is isolated away from, or purified free from, total genomic DNA of a source species, such as *Homo sapiens*. Included within the term "DNA segment" are DNA segments and smaller fragments of such segments, and also recombinant vectors, including, for example, plasmids, cosmids, phages, viruses, and the like.

[0076] As used herein, the term "DNA sequence encoding a GR polypeptide" can refer to one or more coding sequences within a particular individual. Moreover, certain differences in nucleotide sequences can exist between individual organisms, which are called alleles. It is possible that such allelic differences might or might not result in differences in the amino acid sequence of the encoded polypeptide yet still encode a protein with the same biological activity. As is well known, genes for a particular polypeptide can exist in single or multiple copies within the genome of an individual. Such duplicate genes can be identical or can have certain modifications, including nucleotide substitutions, additions or deletions, all of which still code for polypeptides having substantially the same activity.

[0077] As used herein, the phrase "enhancer-promoter" means a composite unit that contains both enhancer and promoter elements. An enhancer-promoter is operatively linked to a coding sequence that encodes at least one gene product.

[0078] As used herein, the term "expanded binding pocket" means an NR ligand binding pocket in which atoms in the protein have shifted so as to increase the volume available to the ligand. The GR/FP structure disclosed in Table 2 provides an example in which, in the A-subunit, the pocket volume increases by approximately 58 cubic angstroms compared with the corresponding subunit of the GR/Dex structure, as described in Table 3, and in which, in the B-subunit, the pocket volume increases by approximately 138 cubic angstroms compared with the corresponding subunit of the GR/Dex structure. In this example, the expansion in the pocket volume is due to movements in atoms comprising residues M560, L563, M639, Q642, M646, and Y735.

[0079] Although a GR expanded binding pocket has been described, other NRs can also comprise an expanded binding pocket. For example, residues that are homologous to those listed for GR (i.e. M560, L563, M639, Q642, M646, and Y735) can be sterically displaced in other NRs. Figure 17, which depicts an alignment of several NRs, can be employed to identify residues homologous to those identified for GR. Figures 8A and 8B identify residues of GR subunit A and subunit B, respectively, that interact with an FP ligand. Steric displacement of any residue in an NR that is homologous to those identified in Figures 8A and 8B for a given NR can also contribute to an expanded binding pocket. Thus, an expanded binding pocket can be formed by steric displacement of one or more residues homologous to the GR residues identified in Figures 8A, 8B and 17.

[0080] An expanded binding pocket can also be characterized in terms of steric displacement of secondary structure elements. Referring again to GR, when FP is bound to the ligand binding site, helices 3, 6, 7, 10 and the loop preceding the AF-2 helix are sterically displaced, leading to an increase in pocket volume as compared with a GR/Dex structure, as characterized by the atomic coordinates of Table 3. Displacement of homologous secondary structure in other NRs can lead to an increase in the pocket volume. Figure 17 identifies homologous secondary structure for several nuclear receptors.

[0081] An expanded NR binding pocket comprises a greater volume than the ligand binding pocket volume in other structures of the same NR. The term "binding pocket volume," which refers to the volume of a binding pocket further defines the term "expanded binding pocket," can also be characterized by reference to the following Table of Pocket Volume Data, which tabulates some representative pocket volumes. In the Table of Pocket Volume Data, pocket vol-

umes were calculated with the program GRASP, using a grid spacing of 0.20 angstroms for construction of the molecular surface, with the atomic radius values of <u>Bondi</u> (<u>Bondi</u>, (1964) *J. Phys. Chem.* 68:441-451), and using a procedure in the MVP program to close all openings and channels connecting the pocket with the exterior of the protein. Ligand volumes were also calculated with the program GRASP, using the same grid spacing and atomic radius values. The specific radius values are as follows: hydrogen, 1.20 angstroms (Å); carbon, 1.70 Å; oxygen, 1.52 Å; nitrogen, 1.55 Å; sulfur, 1.80 Å; fluorine, 1.47 Å; chlorine, 1.75 Å; bromine, 1.85 Å; iodine, 1.98 Å. Hydrogen atoms are modeled onto the protein and the ligand using standard bond lengths and angles, and are represented explicitly in the volume calculations. The MVP program closes openings and channels by covering the entire protein with several layers of closely spaced spheres of radius 1.4 angstroms, and then classifying the spheres as either "inside" or "outside" the protein, based on the degree to which the protein buries the spheres. For the pocket volume calculations, the spheres classified as "outside" are loaded into GRASP together with the protein atoms. This procedure effectively closes all the openings and channels that connect the pocket to the outside of the protein, and allows GRASP to calculate a meaningful cavity volume for the pocket. In the following Table of Pocket Volume Data, all volumes are given in cubic angstroms.

Table of Pocket Volume Data					
		subunit-A		subunit-B	
protein	ligand	pocket	ligand	pocket	ligand
GR	fluticasone proionate	658	476	716	477
GR	dexamethasone	600	390	578	389
PR	progesterone	557	349	570	351
AR	dihydrotestosterone	422	319	no B s	ubunit

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[0082] The term "expanded binding pocket," then, can refer to an NR ligand binding pocket in which the pocket volume is increased by about 50 cubic angstoms over that of a ligand binding pocket in a different structure of the same NR. By way of example, a GR LBD of the present invention comprising an expanded binding pocket (e.g. as characterized by the atomic structural coordinates of Table 2) can exhibit an increase in pocket volume of between about 50 and about 150 cubic angstroms over a GR structure lacking an expanded binding pocket, (e.g. as characterized by the atomic coordinates of Table 3). In other examples, an AR LBD comprising an expanded binding pocket (e.g. as characterized by the atomic structural coordinates of Table 4) can exhibit an increase in pocket volume of between about 50 and about 150 cubic angstroms over an AR structure lacking an expanded binding pocket (e.g. as characterized by the atomic structural coordinates of Table 8 and 9). A MR LBD comprising an expanded binding pocket (e.g. as characterized by the atomic structural coordinates of Table 11) can exhibit an increase in pocket volume of between about 50 and about 150 cubic angstroms over a MR structure lacking an expanded binding pocket. A PR LBD comprising an expanded binding pocket (e.g. as characterized by the atomic structural coordinates of Table 5) can exhibit an increase in pocket volume of between about 50 and about 150 cubic angstroms over a PR structure lacking an expanded binding pocket (e.g. as characterized by the atomic structural coordinates of Table 5) can exhibit an increase in pocket volume of between about 50 and about 150 cubic angstroms over a PR structure lacking an expanded binding pocket (e.g. as characterized by the atomic structural coordinates of Table 10).

[0083] In a preferred embodiment, a GR structure with an expanded binding pocket can comprise a crystalline GR polypeptide, with or without ligand, and with or without coactivator peptide, and atomic coordinates thereof, where the AF2 helix is located in the active position, and where atoms in the residues Met560, Met639, Gln642, Cys643, Met646, and Tyr735 have shifted from their positions in a GR/Dex structure, e.g. as characterized by the atomic structural coordinates of Table 3, by a heavy-atom RMS deviation of at least about 0.50 angstroms, or by a backbone heavy-atom RMS deviation of at least about 0.35 angstroms.

[0084] In another preferred embodiment, a GR structure with an expanded binding pocket can comprise a crystalline GR polypeptide, with or without ligand, and with or without coactivator peptide, and atomic coordinates thereof, where the AF2 helix is located in the active position, and where atoms in the residues Met560, Met639, Gln642, Cys643, Met646, and Tyr735 have shifted from their positions in a GR/Dex structure, e.g. as characterized by the atomic structural coordinates of Table 3, so as to increase the volume of a binding pocket by at least about 5% compared with a GR/Dex structure, e.g. as characterized by the atomic structural coordinates of Table 3.

[0085] In yet another preferred embodiment, a GR structure with an expanded binding pocket can comprise a crystalline GR polypeptide, with or without ligand, and with or without coactivator peptide, and atomic coordinates thereof, where the AF2 helix is located in the active position, and where atoms in and around the ligand binding site have shifted from their positions in the GR/Dex structure so as to accomodate without atomic overlap steroidal ligands with C17- α substituents comprising 2-20 heavy atoms.

[0086] In a further preferred embodiment, a GR structure with an expanded binding pocket can comprise a crystalline GR polypeptide, with or without ligand, and with or without coactivator peptide, and atomic coordinates thereof, where

the AF2 helix is located in the active position, and where atoms in and around the ligand binding site have shifted from their positions in the GR/Dex structure so as to accommodate without atomic overlap non-steroidal ligands such as benzoxazin-1-one and A-222977.

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[0087] In an additional preferred embodiment, a GR structure with an expanded binding pocket can comprise a crystalline GR polypeptide, with or without ligand, and with or without coactivator peptide, and atomic coordinates thereof, where the AF2 helix is located in the active position, and where atoms in and around the ligand binding site have shifted from their positions in the GR/Dex structure so that fluticasone propionate can be docked into the binding site with a favorable binding energy, as computed with molecular modeling software such as MVP, Discover, AMBER or CHARMM, using common force fields such as CFF91 or MMFF94, and where all atoms in the protein are held fixed. [0088] In another preferred embodiment, a GR structure with an expanded binding pocket can comprise a crystalline GR polypeptide, with or without ligand, and with or without coactivator peptide, and atomic coordinates thereof, where the AF2 helix is located in the active position, and where atoms in and around the ligand binding site have shifted from their positions in the GR/Dex structure so that non-steroidal GR ligands, such as benzoxazin-1-one and A-222977, can be docked into the binding site with a favorable binding energy, as computed with molecular modeling software such as MVP, Discover, AMBER or CHARMM, using common force fields such as CFF91 or MMFF94, and where all atoms in the protein are held fixed.

[0089] As used herein, the term "expression" generally refers to the cellular processes by which a biologically active polypeptide is produced.

[0090] As used herein, the term "gene" is used for simplicity to refer to a functional protein, polypeptide or peptide encoding unit. As will be understood by those in the art, this functional term includes both genomic sequences and cDNA sequences. Preferred embodiments of genomic and cDNA sequences are disclosed herein.

[0091] As used herein, the term "glucocorticoid" means a steroid hormone glucocorticoid. "Glucocorticoids" are agonists for the glucocorticoid receptor. Compounds which mimic glucocorticoids can also be defined as glucocorticoid receptor agonists. A preferred glucocorticoid receptor agonist is fluticasone propionate. Other common glucocorticoid receptor agonists include cortisol, cortisone, prednisolone, prednisone, methylprednisolone, trimcinolone, hydrocortisone, and corticosterone. As used herein, glucocorticoid is intended to include, for example, the following generic and brand name corticosteroids: cortisone (CORTONE ACETATE, ADRESON, ALTESONA, CORTELAN, CORTISTAB. CORTISYL, CORTOGEN, CORTONE, SCHEROSON); dexamethasone--oral (DECADRON-ORAL, DEXAMETH, DEXONE, HEXADROL-ORAL, DEXAMETHASONE INTENSOL, DEXONE 0.5, DEXONE 0.75, DEXONE 1.5, DEX-ONE 4); hydrocortisone--oral (CORTEF, HYDROCORTONE); hydrocortisone cypionate (CORTEF ORAL SUSPEN-SION); methylprednisolone--oral (MEDROL-ORAL); prednisolone--oral (PRELONE, DELTA-CORTEF, PEDIAPRED, ADNISOLONE, CORTALONE, DELTACORTRIL, DELTASOLONE, DELTASTAB, DI-ADRESON F, ENCORTOLONE, HYDROCORTANCYL, MEDISOLONE, METICORTELONE, OPREDSONE, PANAAFCORTELONE, PRECORTISYL, PRENISOLONA, SCHERISOLONA, SCHERISOLONE); prednisone (DELTASONE, LIQUID PRED, METICORTEN, ORASONE 1, ORASONE 5, ORASONE 10, ORASONE 20, ORASONE 50, PREDNICEN-M, PREDNISONE INTEN-SOL, STERAPRED, STERAPRED DS, ADASONE, CARTANCYL, COLISONE, CORDROL, CORTAN, DACORTIN, DECORTIN, DECORTISYL, DELCORTIN, DELLACORT, DELTA-DOME, DELTACORTENE, DELTISONA, DI-ADRESON, ECONOSONE, ENCORTON, FERNISONE, NISONA, NOVOPREDNISONE, PANAFCORT, PANASOL, PARACORT, PARMENISON, PEHACORT, PREDELTIN, PREDNICORT, PREDNICOT, PREDNIDIB, PREDNIMENT, RECTODELT, ULTRACORTEN, WINPRED); triamcinolone--oral (KENACORT, ARISTOCORT, ATOLONE, SHOLOG A, TRAMACORT-D, TRI-MED, TRIAMCOT, TRISTO-PLEX, TRYLONE D, U-TRI-LONE).

[0092] As used herein, the term "glucocorticoid receptor," abbreviated herein as "GR," means the receptor for a steroid hormone glucocorticoid. A glucocorticoid receptor is a steroid receptor and, consequently, a nuclear receptor, since steroid receptors are a subfamily of the superfamily of nuclear receptors. The term "GR" means any polypeptide sequence that can be aligned with human GR such that at least 70%, preferably at least 75%, of the amino acids are identical to the corresponding amino acid in the human GR. The term "GR" also encompasses nucleic acid sequences where the corresponding translated protein sequence can be considered to be a GR. The term "GR" includes invertebrate homologs, whether now known or hereafter identified; preferably, GR nucleic acids and polypeptides are isolated from eukaryotic sources. The term "GR" further includes vertebrate homologs of GR family members, including, but not limited to, mammalian and avian homologs. Representative mammalian homologs of GR family members include, but are not limited to, murine and human homologs. The term "GR" specifically encompasses all GR isoforms, including GR α and GR β . GR β is a splicing variant with 100% identity to GR α , except at the C-terminus, where 50 residues in GR α have been replaced with 15 residues in GR β .

[0093] As used herein, the terms "GR gene product", "GR protein", "GR polypeptide", and "GR peptide" are used interchangeably and mean peptides having amino acid sequences which are substantially identical to native amino acid sequences from the organism of interest and which are biologically active in that they comprise all or a part of the amino acid sequence of a GR polypeptide, or cross-react with antibodies raised against a GR polypeptide, or retain all or some of the biological activity (e.g., DNA or ligand binding ability and/or transcriptional regulation) of the native

amino acid sequence or protein. Such biological activity can include immunogenicity. Representative embodiments are set forth in SEQ ID NOs: 2, 4, 6, and 8. The terms "GR gene product", "GR protein", "GR polypeptide", and "GR peptide" also include analogs of a GR polypeptide. By "analog" is intended that a DNA or peptide sequence can contain alterations relative to the sequences disclosed herein, yet retain all or some of the biological activity of those sequences. Analogs can be derived from genomic nucleotide sequences as are disclosed herein or from other organisms, or can be created synthetically. Those skilled in the art will appreciate that other analogs, as yet undisclosed or undiscovered, can be used to design and/or construct GR analogs. There is no need for a "GR gene product", "GR protein", "GR polypeptide", or "GR peptide" to comprise all or substantially all of the amino acid sequence of a GR polypeptide gene product. Shorter or longer sequences are anticipated to be of use in the invention; shorter sequences are herein referred to as "segments". Thus, the terms "GR gene product", "GR protein", "GR polypeptide", and "GR peptide" also include fusion or recombinant GR polypeptides and proteins comprising sequences of the present invention. Methods of preparing such proteins are disclosed herein and are known in the art.

[0094] As used herein, the terms "GR gene" and "recombinant GR gene" mean a nucleic acid molecule comprising an open reading frame encoding a GR polypeptide of the present invention, including both exon and (optionally) intron sequences.

[0095] As used herein, "hexagonal unit cell" means a unit cell wherein $a = b \neq c$; and $\alpha = \beta = 90$, $\gamma = 120^\circ$. The vectors a, b and c describe the unit cell edges and the angles α , β , and γ describe the unit cell angles. In a preferred embodiment of the present invention, the unit cell has lattice constants of a = b = 127.656 Å, c = 87.725 Å, $\alpha = 90^\circ$, $\beta = 90^\circ$, $\gamma = 120^\circ$. While preferred lattice constants are provided, a crystalline polypeptide of the present invention also comprises variations from the preferred lattice constants, wherein the varations range from about one to about two percent. Thus, for example, a crystalline polypeptide of the present invention can also comprise lattice constants a and b of about 126 Å or about 128 Å and lattice constant c of about 86 Å or about 88 Å.

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[0096] As used herein, "homology model" or "homology modeling" means a simulated three-dimensional protein structure resulting from homology modeling, which encompasses the process of creating those simulated protein structures by systematic replacement of differing amino acid residues in a related template protein structure, that can either be a crystal structure or homology model itself, in order to produce a target protein structure.

[0097] As used herein, "docking model" means a simulated three-dimensional protein structure resulting from the manual or automated adjustment of the three-dimensional coordinates of a template protein structure, that can either be a crystal structure or homology model, and/or a bound ligand. A docking model differs from a homology model in that, when constructing a docking model, no systematic replacement of differing amino acids residues is required.

[0098] As used herein, "model" means either a homology model or a docking model depending on the context.

[0099] As used herein, the term "hybridization" means the binding of a probe molecule, e.g. a molecule to which a detectable moiety has been bound, to a target sample.

[0100] As used herein, the term "interact" means detectable interactions between molecules, such as can be detected using, for example, a yeast two hybrid assay. The term "interact" is also meant to include "binding" interactions between molecules. Interactions can, for example, be protein-protein or protein-nucleic acid in nature.

[0101] As used herein, the term "intron" means a DNA sequence present in a given gene that is not translated into protein.

[0102] As used herein, the term "isolated" means oligonucleotides substantially free of other nucleic acids, proteins, lipids, carbohydrates or other materials with which they can be associated, such association being either in cellular material or in a synthesis medium. The term can also be applied to polypeptides, in which case the polypeptide will be substantially free of nucleic acids, carbohydrates, lipids and other undesired polypeptides.

[0103] As used herein, the term "labeled" means the attachment of a moiety, capable of detection by spectroscopic, radiologic or other methods, to a probe molecule.

[0104] As used herein, the term "modified" means an alteration from an entity's normally occurring state. An entity can be modified by removing discrete chemical units or by adding discrete chemical units. The term "modified" encompasses detectable labels as well as those entities added as aids in purification.

[0105] As used herein, the term "modulate" means an increase, decrease, or other alteration of any or all chemical and biological activities or properties of a wild-type or mutant polypeptide, e.g. a wild-type or mutant GR polypeptide. The term "modulation" as used herein refers to both upregulation (i.e., activation or stimulation) and downregulation (i.e. inhibition or suppression) of a response, and includes responses that are upregulated in one cell type or tissue, and down-regulated in another cell type or tissue.

[0106] As used herein, the term "molecular replacement" means a method of solving a crystal structure of a chemical compound (e.g. a protein) that involves generating a preliminary model of a crystalline polypeptide whose structure coordinates are unknown (e.g. a wild type or mutant GR polypeptide or fragment or domain thereof), by orienting and positioning a molecule or model whose structure coordinates are known (e.g., a nuclear receptor) within the unit cell of the unknown crystal so as best to account for the observed diffraction pattern of the unknown crystal. Phases can then be calculated from this model and combined with the observed amplitudes to give an approximate Fourier synthesis

of the structure whose coordinates are unknown. This, in turn, can be subject to any of the several forms of refinement to provide a final, accurate structure of the unknown crystal. See, e.g., Lattman, (1985) Method Enzymol., 115: 55-77; Rossmann (ed.), (1972) The Molecular Replacement Method, Gordon & Breach, New York, New York, United States of America. For example, using the structure coordinates of the ligand binding domain of GR provided by this invention, molecular replacement can be used to determine the structure coordinates of a crystalline mutant or homologue of the GR ligand binding domain, or of a different crystal form of the GR ligand binding domain.

[0107] As used herein, the term "mutation" carries its traditional connotation and means a change, inherited, naturally occurring or introduced, in a nucleic acid or polypeptide sequence, and is used in its sense as generally known to those of skill in the art.

[0108] As used herein, the terms "non-steroid" and "non-steroid compound" are used interchangeably and mean a compound that lacks the ring structure that defines steroid compounds, namely the structure:

but retains the binding and functional activity of a steroid compound for an NR such as GR.

[0109] As used herein, the term "nuclear receptor", occasionally abbreviated herein as "NR", means a member of the superfamily of receptors that comprises at least the subfamilies of steroid receptors, thryroid hormone receptors, retinoic acid receptors and vitamin D receptors, and specifically encompasses GR. Thus, a given nuclear receptor can be further classified as a member of a subfamily while retaining its status as a nuclear receptor. The term "nuclear receptor" also encompasses fragments of a nuclear receptor.

[0110] As used herein, the phrase "operatively linked" means that an enhancer-promoter is connected to a coding sequence in such a way that the transcription of that coding sequence is controlled and regulated by that enhancer-promoter. Techniques for operatively linking an enhancer-promoter to a coding sequence are well known in the art; the precise orientation and location relative to a coding sequence of interest is dependent, *inter alia*, upon the specific nature of the enhancer-promoter.

[0111] As used herein, the term "partial agonist" means an entity that can bind to a receptor or other target and induce only part of the changes in the receptor or other target that are induced by agonists. The differences can be qualitative or quantitative. Thus, a partial agonist can induce some of the conformation changes induced by agonists, but not others, or it can only induce certain changes to a limited extent.

[0112] As used herein, the term "partial antagonist" means an entity that can bind to a receptor or other target and inhibit only part of the changes in the receptor or other target that are induced by antagonists. The differences can be qualitative or quantitative. Thus, a partial antagonist can inhibit some of the conformation changes induced by an antagonist, but not others, or it can inhibit certain changes to a limited extent.

[0113] As used herein, the term "pocket volume" means the volume of space within the protein that is available for occupation by a ligand. Any desired algorithm can be employed when calculating a pocket volume, although some algorithms are more accurate than others. In one approach, a pocket volume can be approximated by an ellipsoid with principle axes of length 2a, 2b and 2c, and its volume can be calculated as

$$V = (4/3) x pi x (a) x (b) x (c)$$

where pi=3.14159.

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[0114] The walls of the pocket are formed from atoms comprising the nuclear receptor protein. In another approach, these atoms, and the atoms in the ligand, can be approximated as spheres with specified atomic radius values. With this representation, the walls of the pocket comprise numerous spheres. If two atoms are directly bonded together, then their spheres will overlap. The spheres can also overlap when atoms are connected together by bonds with one or two intervening atoms, but do not normally overlap significantly when atoms are more distantly connected, or when the atoms are not covalently connected. Consequently, in this representation, the walls of the pocket have numerous gaps, channels and spaces between the spheres. Ligand atoms may fit into some of the larger gaps, channels and spaces, but generally cannot fit into the smaller gaps, channels and spaces. This complication of the spherical atom representation led to the definition of a "molecular surface" where gaps and spaces too small to accommodate a water

molecule, or "probe," were effectively smoothed over. Some of the fundamental issues involved in the definition of a molecular surface and the calculation of molecular volumes are discussed in <u>Richards</u>, (1977) *Ann. Rev. Biophys. Bioeng.* 6:151-176. For a further discussion of the molecular surface and algorithms for its calculation, see Connolly, (1983) *Science* 221:709-713. Because of Connolly's contributions, the molecular surface is sometimes referred to as a "Connolly surface."

[0115] A pocket is generally defined as the region enclosed by the molecular surface, where the molecular surface is calculated using a probe radius of 1.4 angstroms. With nuclear receptors, there can often be channels connecting the pocket with the exterior of the protein. In this case, it is presumed that the channels are occluded in some manner so that a fully enclosed pocket can be defined. For example, a channel can be occluded by placing a water molecule at the narrowest point along the channel. The program MVP has an systematic algorithm for closing channels: the entire protein is first covered by several layers of closely-spaced water-sized spheres. The spheres are generated by placing the protein in a grid, and identifying grid points where a sphere of radius 1.4 angstroms can be accommodated without overlapping the sphere corresponding to any atom of the protein. In calculations reported herein, the grid spacing was taken as 0.3-0.8 angstroms. These spheres on the grid are then identified as either internal to the protein or external to the protein, based on the degree to which they are buried within the protein. The degree of burial is quantified by measuring the solid angle occluded by the protein at the grid point in question. In calculations reported herein, the sphere is considered to be buried if 90% or more of the solid angle is occluded by the protein.

[0116] A fully closed molecular surface can be generated for the ligand binding pocket with programs such as GRASP (Columbia University, New York, New York, United States of America) or Connolly's MS program by loading the protein together with the external water-sized spheres generated by MVP. The program GRASP can further be used to calculate the cavity volume. It is noted that the calculated cavity volume is sensitive to the grid spacing used in generating the molecular surface. The GRASP calculations reported herein used a grid spacing of 0.2 angstroms. Coarser spacings can lead to substantially inaccurate volumes. The internal grid spheres generated by MVP can also be used to estimate the volume of the pocket. In this case, MVP carries out a cluster analysis to group the internal spheres into clusters corresponding to different pockets and cavities within the protein. With nuclear receptors, the ligand binding pocket generally corresponds to the largest such cluster. The volume of the cluster can be calculated directly with the GRASP program. This approach tends to underestimate the volume of the pocket, since the internal grid spheres can never fill the pocket entirely. The spheres can fill the pocket more fully as the grid spacing is reduced. A grid spacing of 0.3 angstroms gives volumes in relatively good agreement with the alternative GRASP method described above. Other methods of calculating pocket volumes have been described in the literature. See, e.g., Kleywegt & Jones, (1994) Acta Crystallogr. Section D D50:178-185.

[0117] Aside from the algorithm used, the atomic radius values can also be considered. Generally, atomic volumes depend on the radius raised to the third power, so it is clear that calculated molecular volumes are sensitive to atomic radius values. Cavity volumes tend to decrease as radius values increase, and if the atomic radius values are too large, the calculated cavity volume will be too small. In the present invention, the following atomic radius values were employed: hydrogen, 1.20Å; carbon, 1.70Å; nitrogen, 1.55Å; oxygen, 1.52Å; sulfur, 1.80Å; fluorine, 1.47Å; chlorine, 1.75Å; bromine, 1.85Å; iodine, 1.98Å. See Bondi, (1964) *J. Phys. Chem.* 68:441-451. For all volume calculations reported herein, the hydrogens were represented explicitly. These hydrogen atoms are added to the protein with MVP using standard bond lengths and angles, followed by energy minimization with the CFF91 force field within MVP. Some other workers in the protein structure field often omit the hydrogens in surface and volume calculations, using an increased carbon radius to compensate. This "united atom" approximation can reduce the accuracy of a pocket volume calculation.

[0118] When comparing the volumes of two different proteins, or two different conformations of the same protein, it is preferable to use the same algorithm, parameters and atomic radius values.

[0119] As used herein, the term "polypeptide" means any polymer comprising any of the 20 protein amino acids, regardless of its size. Although "protein" is often used in reference to relatively large polypeptides, and "peptide" is often used in reference to small polypeptides, usage of these terms in the art overlaps and varies. The term "polypeptide" as used herein refers to peptides, polypeptides and proteins, unless otherwise noted. As used herein, the terms "protein", "polypeptide" and "peptide" are used interchangeably herein when referring to a gene product.

[0120] As used herein, the term "primer" means a sequence comprising two or more deoxyribonucleotides or ribonucleotides, preferably more than three, and more preferably more than eight and most preferably at least about 20 nucleotides of an exonic or intronic region. Such oligonucleotides are preferably between ten and thirty bases in length.

[0121] As used herein, the term "root mean squared (RMS) deviation" of a collection of atoms in one protein structure relative to the corresponding atoms in another protein structure refers to the average displacement of those atoms, after superimposition of the proteins, as computed according to the formula

RMSDeviation =
$$\sqrt{\frac{1}{N}} \sum_{i=1}^{N} \left[\left(x_i^1 - x_i^2 \right)^2 + \left(y_i^1 - y_i^2 \right)^2 + \left(z_i^1 - z_i^2 \right)^2 \right]$$

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where xi1, yi1, zi1 are the coordinates of atom i in structure 1, and xi2, yi2, zi2 are the coordinates of atom i in structure 2 (after superimposition of the two proteins), N is the number of atoms in the collection, and where the index i runs iteratively through the collection of N atoms for which the RMS deviation is to be calculated. The superimposition is a rotation and translation of the coordinates carried out using the backbone atoms in the core of the protein, and carried out so as to minimize the RMS deviation of these core backbone atoms. This can optionally include some or all the atoms in the collection for which the RMS deviation is calculated. For GR, the superimposition might be carried out using backbone atoms in helices 1-10, but would normally not include the AF2 helix or the loops connecting the helices. Various algorithms are available for generating the rotation matrix and translation vectors that superimpose two sets of protein backbone atoms. See, for example, Kabsch, (1978) Acta Cryst. A34, 827-828. These algorithms can be used together with sequence alignment algorithms to identify corresponding backbone atoms in two different protein structures. See, for example, Blundell et al., (1987) Nature 326:347-352. Hydrogen atoms are generally not clearly visible in the electron density, and there may be uncertainties in their placement using molecular modeling software. Consequently, hydrogen atoms are usually not included in the collections of atoms used in calculating RMS deviations. As used herein, the term heavy atom RMS deviation refers to an RMS deviation calculated by excluding the hydrogen atoms from the specified collection. In the analysis of protein structures, the side-chain atoms often shift more than the backbone atoms, and it may be useful to calculate RMS deviations using only the backbone heavy atoms. As used herein, the term backbone heavy-atom RMS deviation refers to an RMS deviation calculated using the backbone heavy atoms, commonly designated as N, $C\alpha$, C and O, but not including any of the side-chain atoms.

[0122] As used herein, the term "sequencing" means the determining the ordered linear sequence of nucleic acids or amino acids of a DNA or protein target sample, using conventional manual or automated laboratory techniques.

[0123] As used herein, the term "space group" means the arrangement of symmetry elements of a crystal.

[0124] As used herein, the term "steroid receptor" means a nuclear receptor that can bind or associate with a naturally occurring steroid compound. Steroid receptors are a subfamily of the superfamily of nuclear receptors. The subfamily of steroid receptors comprises glucocorticoid receptors and, therefore, a glucocorticoid receptor is a member of the subfamily of steroid receptors and the superfamily of nuclear receptors.

[0125] As used herein, the terms "structure coordinates," "structural coordinates," "spatial coordinates," "atomic structure coordinates," "three-dimensional coordinates" and "atomic coordinates" are used interchangeably and mean mathematical coordinates derived from mathematical equations related to the patterns obtained on diffraction of a monochromatic beam of X-rays by the atoms (scattering centers) of a molecule in crystal form. The diffraction data are used to calculate an electron density map of the repeating unit of the crystal. The electron density maps are used to establish the positions of the individual atoms within the unit cell of the crystal.

[0126] Those of skill in the art understand that a set of coordinates determined by X-ray crystallography is not without standard error. In general, the error in the coordinates tends to be reduced as the resolution is increased, since more experimental diffraction data is available for the model fitting and refinement. Thus, for example, more diffraction data can be collected from a crystal that diffracts to a resolution of 3.0 angstroms than from a crystal that diffracts to a lower resolution, such as 3.5 angstroms. Consequently, the refined structural coordinates will usually be more accurate when fitted and refined using data from a crystal that diffracts to higher resolution. The design of ligands and modulators for GR or any other NR depends on the accuracy of the structural coordinates. If the coordinates are not sufficiently accurate, then the design process will be ineffective. In most cases, it is very difficult or impossible to collect sufficient diffraction data to define atomic coordinates precisely when the crystals diffract to a resolution of only 3.5 angstroms or poorer. Thus, in most cases, it is difficult to use X-ray structures in structure-based ligand design when the X-ray structures are based on crystals that diffract to a resolution of only 3.5 angstroms or poorer. However, common experience has shown that crystals diffracting to 3.0 angstroms or better can yield X-ray structures with sufficient accuracy to greatly facilitate structure-based drug design. Further improvement in the resolution can further facilitate structurebased design, but the coordinates obtained at 3.0 angstroms resolution are generally adequate for most purposes.

[0127] Also, those of skill in the art will understand that NR proteins can adopt different conformations when different ligands are bound. In particular, NR proteins will adopt substantially different conformations when agonists and antagonists are bound. Subtle variations in the conformation can also occur when different agonists are bound, and when different antagonists are bound. These variations can be difficult or impossible to predict from a single X-ray structure. Generally, structure-based design of GR modulators depends to some degree on an understanding of the differences in conformation that occur when agonists and antagonists are bound. Thus, structure-based modulator design is most facilitated by the availability of X-ray structures of complexes with potent agonists as well as potent antagonists.

[0128] As used herein, the term "substantially pure" means that the polynucleotide or polypeptide is substantially free of the sequences and molecules with which it is associated in its natural state, and those molecules used in the isolation procedure. The term "substantially free" means that the sample is at least 50%, preferably at least 70%, more preferably 80% and most preferably 90% free of the materials and compounds with which is it associated in nature.

[0129] As used herein, the term "target cell" refers to a cell, into which it is desired to insert a nucleic acid sequence or polypeptide, or to otherwise effect a modification from conditions known to be standard in the unmodified cell. A nucleic acid sequence introduced into a target cell can be of variable length. Additionally, a nucleic acid sequence can enter a target cell as a component of a plasmid or other vector or as a naked sequence.

[0130] As used herein, the term "transcription" means a cellular process involving the interaction of an RNA polymerase with a gene that directs the expression as RNA of the structural information present in the coding sequences of the gene. The process includes, but is not limited to the following steps: (a) the transcription initiation, (b) transcript elongation, (c) transcript splicing, (d) transcript capping, (e) transcript termination, (f) transcript polyadenylation, (g) nuclear export of the transcript, (h) transcript editing, and (i) stabilizing the transcript.

[0131] As used herein, the term "transcription factor" means a cytoplasmic or nuclear protein which binds to such gene, or binds to an RNA transcript of such gene, or binds to another protein which binds to such gene or such RNA transcript or another protein which in turn binds to such gene or such RNA transcript, so as to thereby modulate expression of the gene. Such modulation can additionally be achieved by other mechanisms; the essence of "transcription factor for a gene" is that the level of transcription of the gene is altered in some way.

[0132] As used herein, the term "unit cell" means a basic parallelipiped shaped block. The entire volume of a crystal can be constructed by regular assembly of such blocks. Each unit cell comprises a complete representation of the unit of pattern, the repetition of which builds up the crystal. Thus, the term "unit cell" means the fundamental portion of a crystal structure that is repeated infinitely by translation in three dimensions. A unit cell is characterized by three vectors a, b, and c, not located in one plane, which form the edges of a parallelepiped. Angles α , β and γ define the angles between the vectors: angle α is the angle between vectors b and c; angle β is the angle between vectors a and c; and angle γ is the angle between vectors a and b. The entire volume of a crystal can be constructed by regular assembly of unit cells; each unit cell comprises a complete representation of the unit of pattern, the repetition of which builds up the crystal.

II. Description of Tables

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[0133] Table 1 is a table summarizing the crystal and data statistics obtained from the crystallized ligand binding domain of human GR in complex with the ligand fluticasone propionate and a coactivator peptide derived from TIF2. Data on the unit cell are presented, including data on the crystal space group, unit cell dimensions, molecules per asymmetric cell and crystal resolution.

[0134] Table 2 is a table presenting the atomic coordinate data for crystallized GR LBD in complex with fluticasone propionate and a TIF2 peptide.

[0135] Table 3 is a table presenting the atomic coordinate data for human GR in complex with dexamethasone and a TIF2 peptide employed in the molecular replacement solution of human GR ligand binding domain in complex with fluticasone propionate and a TIF2 peptide.

[0136] Table 4 is a table presenting the three-dimensional coordinates of AR in complex with bicalutamide obtained from homology modeling of the crystal structure coordinates of GRα in complex with FP.

[0137] Table 5 is a table presenting the three-dimensional coordinates of PR in complex with RWJ-60130 obtained from homology modeling of the crystal structure coordinates of $GR\alpha$ in complex with FP.

[0138] Table 6 is a table presenting a subset of three-dimensional coordinates of $GR\alpha$ in complex with the benzoxazin-1-one obtained from modeling of the crystal structure of $GR\alpha$ in complex with FP.

[0139] Table 7 is a table presenting a subset of three-dimensional coordinates of $GR\alpha$ in complex with A-222977 obtained from modeling of the crystal structure of $GR\alpha$ in complex with FP.

[0140] Table 8 is a table presenting three-dimensional coordinates of AR in complex with DHT (Sack et al., (2001) Proc. Natl. Acad. Sci. U.S.A. 98(9): 4904-4909; PDB ID No. 1137).

[0141] Table 9 is a table presenting three-dimensional coordinates of AR in complex with the ligand R1881 (Matias et al., (2000) *J. Biol. Chem.* 275(34): 26164-171; PDB ID No. 1E3G).

[0142] Table 10 is a table presenting three-dimensional coordinates of PR in complex with PG (Williams & Sigler, (1998) Nature 393:392-396; PDB ID No. 1A28).

[0143] Table 11 is a table presenting three-dimensional coordinates of MR obtained from homology modeling of the crystal structure coordinates of GR α in complex with FP.

III. General Considerations

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[0144] The present invention will usually be applicable *mutatis mutandis* to nuclear receptors in general, more particularly to steroid receptors including MR, AR, PR, GR and isoforms thereof, and even more particularly to glucocorticoid receptors, as discussed herein, based, in part, on the patterns of nuclear receptor and steroid receptor structure and modulation. Some of these patterns have emerged as a consequence of the present disclosure, which in part discloses determining the three dimensional structure of the ligand binding domain of GRα having an expanded binding pocket in complex with fluticasone propionate and a fragment of the co-activator TIF2.

[0145] The nuclear receptor superfamily can be subdivided into two subfamilies: the GR subfamily (also referred to as the steroid receptors and denoted SRs), comprising GR, AR (androgen receptor), MR (mineralcorticoid receptor) and PR (progesterone receptor) and the thyroid hormone receptor (TR) subfamily, comprising TR, vitamin D receptor (VDR), retinoic acid receptor (RAR), retinoid X receptor (RXR), and most orphan receptors. This division has been made on the basis of DNA binding domain structures, interactions with heat shock proteins (HSP), and ability to form dimers

[0146] Steroid receptors (SRs) form a subset of the superfamily of nuclear receptors. The glucocorticoid receptor is a steroid receptor and thus a member of the superfamily of nuclear receptors and the subset of steroid receptors. The human glucocorticoid receptor exists in two isoforms: GRα, which comprises 777 amino acids and GRβ, which comprises 742 amino acids. As noted, the alpha isoform of human glucocorticoid receptor comprises 777 amino acids and is predominantly cytoplasmic in its unactivated, non-DNA binding form. When activated, it translocates to the nucleus. In order to understand the role played by the glucocorticoid receptor in the different cell processes, the receptor was mapped by transfecting receptor-negative and glucocorticoid-resistant cells with different steroid receptor constructs and reporter genes like chloramphenicol acyltransferase (CAT) or luciferase which had been covalently linked to a glucocorticoid responsive element (GRE). From these and other studies, four major functional domains have become evident.

[0147] From the amino terminal end to the carboxyl terminal end, these functional domains include the tau 1, DNA binding, and ligand binding domains in succession. The tau 1 domain spans amino acid positions 77-262 and regulates gene activation. The DNA binding domain is from amino acid positions 421-486 and has nine cysteine residues, eight of which are organized in the form of two zinc fingers analogous to Xenopus transcription factor IIIA. The DNA binding domain binds to the regulatory sequences of certain genes that are induced or deinduced by glucocorticoids. Amino acids 521 to 777 form the ligand binding domain, which binds glucocorticoid to activate the receptor. This region of the receptor also comprises a nuclear localization signal. Deletion of this carboxyl terminal end results in a receptor that is constitutively active for gene induction (up to 30% of wild type activity) and even more active for cell kill (up to 150% of wild type activity) (Giguere et al., (1986) Cell 46: 645-652; Hollenberg et al., (1987) Cell 49: 39-46; Hollenberg & Evans, (1988) Cell 55: 899-906; Hollenberg et al., (1989) Cancer Res. 49: 2292s-2294s; Oro et al., (1988) Cell 55: 1109-1114; Evans, (1989) in Recent Progress in Hormone Research (Clark, ed.) Vol. 45, pp. 1-27, Academic Press, San Diego, California, United States of America; Green & Chambon, (1987) Nature 325: 75-78; Picard & Yamamoto, (1987) EMBO J. 6: 3333-3340; Picard et al., (1990) Cell Regul. 1: 291-299; Godowski et al., (1987) Nature 325: 365-368; Miesfeld et al., (1987) Science 236:423-427; Danielsen et al., (1989) Cancer Res. 49: 2286s-2291s; Danielsen et al., (1987) Molec. Endocrinol. 1: 816-822; Umesono & Evans, (1989) Cell 57: 1139-1146.). Despite the aforementioned indirect characterization of the structure of GRa, until the present disclosure, a detailed three-dimensional model of the ligand binding domain of $\text{GR}\alpha$ in complex with fluticasone propionate has not been achieved.

[0148] GR subgroup members are tightly bound by heat shock protein(s) (HSP) in the absence of ligand, dimerize following ligand binding and dissociation of HSP, and show homology in the DNA half sites to which they bind. These half sites also tend to be arranged as palindromes. TR subgroup members tend to be bound to DNA or other chromatin molecules when unliganded, can bind to DNA as monomers and dimers, but tend to form heterodimers, and bind DNA elements with a variety of orientations and spacings of the half sites, and also show homology with respect to the nucleotide sequences of the half sites. ER does not belong to either subfamily, since it resembles the GR subfamily in hsp interactions, and the TR subfamily in nuclear localization and DNA-binding properties.

[0149] Most members of the superfamily, including orphan receptors, possess at least two transcription activation subdomains, one of which is constitutive and resides in the amino terminal domain (AF-1), and the other of which (AF-2) resides in the ligand binding domain, whose activity is regulated by binding of an agonist ligand. The function of AF-2 requires an activation domain (also called transactivation domain) that is highly conserved among the receptor superfamily. Most LBDs contain an activation domain. Some mutations in this domain abolish AF-2 function, but leave ligand binding and other functions unaffected. Ligand binding allows the activation domain to serve as an interaction site for essential co-activator proteins that function to stimulate (or in some cases, inhibit) transcription.

[0150] Analysis and alignment of amino acid sequences, and X-ray and NMR structure determinations, have shown that nuclear receptors have a modular architecture with three main domains:

1) a variable amino-terminal domain;

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- 2) a highly conserved DNA-binding domain (DBD); and
- 3) a less conserved carboxy-terminal ligand binding domain (LBD).
- In addition, nuclear receptors can have linker segments of variable length between these major domains.
 - [0151] Sequence analysis and X-ray crystallography, including the disclosure of the present invention have confirmed that GR also has the same general modular architecture, with the same three domains. The function of GR in human cells presumably requires all three domains in a single amino acid sequence. However, the modularity of GR permits different domains of each protein to separately accomplish certain functions. Some of the functions of a domain within the full-length receptor are preserved when that particular domain is isolated from the remainder of the protein. Using conventional protein chemistry techniques, a modular domain can sometimes be separated from the parent protein. Using conventional molecular biology techniques, each domain can usually be separately expressed with its original function intact or, as discussed herein below, chimeras comprising two different proteins can be constructed, wherein the chimeras retain the properties of the individual functional domains of the respective nuclear receptors from which the chimeras were generated.
 - [0152] The carboxy-terminal activation subdomain is in close three-dimensional proximity in the LBD to the ligand, so as to allow for ligands bound to the LBD to coordinate (or interact) with amino acid(s) in the activation subdomain. As described herein, the LBD of a nuclear receptor can be expressed, crystallized, its three dimensional structure determined with a ligand bound (either using crystal data from the same receptor or a different receptor or a combination thereof), and computational methods used to design ligands to its LBD, particularly ligands that contain an extension moiety that coordinates the activation domain of the nuclear receptor.
 - [0153] The LBD is the second most highly conserved domain in these receptors. As its name suggests, the LBD binds ligands. With many nuclear receptors, including GR, binding of the ligand can induce a conformational change in the LBD that can, in turn, activate transcription of certain target genes. Whereas integrity of several different LBD sub-domains is important for ligand binding, truncated molecules containing only the LBD retain normal ligand-binding activity. This domain also participates in other functions, including dimerization, nuclear translocation and transcriptional activation, as described herein.
 - [0154] Nuclear receptors usually have HSP binding domains that present a region for binding to the LBD and can be modulated by the binding of a ligand to the LBD. For many of the nuclear receptors ligand binding induces a dissociation of heat shock proteins such that the receptors can form dimers in most cases, after which the receptors bind to DNA and regulate transcription. Consequently, a ligand that stabilizes the binding or contact of the heat shock protein binding domain with the LBD can be designed using the computational methods described herein.
 - [0155] With the receptors that are associated with the HSP in the absence of the ligand, dissociation of the HSP results in dimerization of the receptors. Dimerization is due to receptor domains in both the DBD and the LBD. Although the main stimulus for dimerization is dissociation of the HSP, the ligand-induced conformational changes in the receptors can have an additional facilitative influence. With the receptors that are not associated with HSP in the absence of the ligand, particularly with the TR, ligand binding can affect the pattern of dimerization. The influence depends on the DNA binding site context, and can also depend on the promoter context with respect to other proteins that can interact with the receptors. A common pattern is to discourage monomer formation, with a resulting preference for heterodimer formation over dimer formation on DNA.
 - [0156] Nuclear receptor LBDs usually have dimerization domains that present a region for binding to another nuclear receptor and can be modulated by the binding of a ligand to the LBD. Consequently, a ligand that disrupts the binding or contact of the dimerization domain can be designed using the computational methods described herein to produce a partial agonist or antagonist.
- [0157] The amino terminal domain of GR is the least conserved of the three domains. This domain is involved in transcriptional activation and, its uniqueness might dictate selective receptor-DNA binding and activation of target genes by GR subtypes. This domain can display synergistic and antagonistic interactions with the domains of the LBD. [0158] The DNA binding domain has the most highly conserved amino acid sequence among the GR domains. It typically comprises about 70 amino acids that fold into two zinc finger motifs, wherein a zinc atom coordinates four cysteines. The DBD comprises two perpendicularly oriented α-helixes that extend from the base of the first and second zinc fingers. The two zinc fingers function in concert along with non-zinc finger residues to direct the GR to specific target sites on DNA and to align receptor dimer interfaces. Various amino acids in the DBD influence spacing between two half-sites (which usually comprises six nucleotides) for receptor dimerization. The optimal spacings facilitate cooperative interactions between DBDs, and D box residues are part of the dimerization interface. Other regions of the DBD facilitate DNA-protein and protein-protein interactions are involved in dimerization.
 - [0159] In nuclear receptors that bind to a HSP, the ligand-induced dissociation of HSP with consequent dimer formation allows, and therefore, promotes DNA binding. With receptors that are not associated (as in the absence of ligand), ligand binding tends to stimulate DNA binding of heterodimers and dimers, and to discourage monomer binding

to DNA. However, with DNA containing only a single half site, the ligand tends to stimulate the receptor's binding to DNA. The effects are modest and depend on the nature of the DNA site and probably on the presence of other proteins that can interact with the receptors. Nuclear receptors usually have DBD (DNA binding domains) that present a region for binding to DNA and this binding can be modulated by the binding of a ligand to the LBD.

[0160] The modularity of the members of the nuclear receptor superfamily permits different domains of each protein to separately accomplish different functions, although the domains can influence each other. The separate function of a domain is usually preserved when a particular domain is isolated from the remainder of the protein. Using conventional protein chemistry techniques a modular domain can sometimes be separated from the parent protein. By employing conventional molecular biology techniques each domain can usually be separately expressed with its original function intact or chimerics of two different nuclear receptors can be constructed, wherein the chimerics retain the properties of the individual functional domains of the respective nuclear receptors from which the chimerics were generated.

[0161] Various structures have indicated that most nuclear receptor LBDs adopt the same general folding pattern. This fold consists of 10-12 alpha helices arranged in a bundle, together with several beta-strands, and linking segments. A preferred GRα LBD structure of the present invention has 10-11 helices, depending on whether helix-3' is counted. Structural studies have shown that most of the alpha-helices and beta-strands have the same general position and orientation in all nuclear receptor structures, whether ligand is bound or not. However, the AF2 helix has been found in different positions and orientations relative to the main bundle, depending on the presence or absence of the ligand, and also on the chemical nature of the ligand. These structural studies have suggested that many nuclear receptors share a common mechanism of activation, where binding of activating ligands helps to stabilize the AF2 helix in a position and orientation adjacent to helices-3, -4, and -10, covering an opening to the ligand binding site. This position and orientation of the AF2 helix, which will be called the "active conformation", creates a binding site for co-activators. See, e.g., Nolte et al., (1998) Nature 395:137-43; Shiau et al., (1998) Cell 95: 927-37. This co-activator binding site has a central lipophilic pocket that can accommodate leucine side-chains from co-activators, as well as a "chargeclamp" structure consisting essentially of a lysine residue from helix-3 and a glutamic acid residue from the AF2 helix. [0162] Structural studies have shown that co-activator peptides containing the sequence LXXLL (SEQ ID NO: 10) (where L is leucine and X can be a different amino acid in different cases) can bind to this co-activator binding site by making interactions with the charge clamp lysine and glutamic acid residues, as well as the central lipophilic region. This co-activator binding site is disrupted when the AF2 helix is shifted into other positions and orientations. In PPARy, activating ligands such as rosiglitazone (BRL49653) make a hydrogen bonding interaction with tyrosine-473 in the AF2 helix. Nolte et al., (1998) Nature 395:137-43; Gampe et al., (2000) Mol. Cell 5: 545-55. Similarly, in GR, the dexamethasone ligand makes van der Waals interaction with the side chain of leucine-753 from the AF2 helix. This interaction is believed in part to stabilize the AF2 helix in the active conformation, thereby allowing co-activators to bind and thus activating transcription from target genes.

[0163] With certain antagonist ligands, or in the absence of any ligand, the AF2 helix can be held less tightly in the active conformation, or can be free to adopt other conformations. This would either destabilize or disrupt the co-activator binding site, thereby reducing or eliminating co-activator binding and transcription from certain target genes. Some of the functions of the GR protein depend on having the full-length amino acid sequence and certain partner molecules, such as co-activators and DNA. However, other functions, including ligand binding and ligand-dependent conformational changes, can be observed experimentally using isolated domains, chimeras and mutant molecules.

[0164] As described herein, the LBD of a GR can be mutated, expressed, crystallized, its three dimensional structure can be determined with a ligand (e.g. fluticasone propionate) bound as disclosed in the present invention. Computational methods can then be employed to design ligands to nuclear receptors, preferably to steroid receptors, and more preferably to glucocorticoid receptors.

IV. The Fluticasone Ligand

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[0165] Ligand binding can induce transcriptional activation functions in a variety of ways. One way is through the dissociation of the HSP from receptors. This dissociation, with consequent dimerization of the receptors and their binding to DNA or other proteins in the nuclear chromatin, allows transcriptional regulatory properties of the receptors to be manifest. This can be especially true of such functions on the amino terminus of the receptors.

[0166] Another way is by altering the receptor to interact with other proteins involved in transcription. These can be proteins that interact directly or indirectly with elements of the proximal promoter or proteins of the proximal promoter. Alternatively, the interactions can be through other transcription factors that themselves interact directly or indirectly with proteins of the proximal promoter. Several different proteins have been described that bind to the receptors in a ligand-dependent manner. In addition, it is possible that in some cases, the ligand-induced conformational changes do not affect the binding of other proteins to the receptor, but do affect their abilities to regulate transcription.

[0167] In one aspect of the present invention, a GR LBD was co-crystallized with a TIF2 peptide and the ligand fluticasone propionate. U.S. Patent No. 4,335,121 to Phillips et al., incorporated herein by reference, teaches an an-

tiinflammatory steroid compound known by the chemical name (6α, 11β, 16α, 17α)-6,9-difluoro-11-hydroxy-16-methyl-3-oxo-17-(1-oxopropoxy)androsta-1,4-diene-17-carbothioic acid S-(fluoromethyl) ester and the generic name "fluticasone propionate." Fluticasone propionate in aerosol form, has been accepted by the medical community as useful in the treatment of asthma (see, e.g., Nimmagadda et al., (1998) Ann. Allerg. Asthma Im. 81:35-40) and is marketed under the trademarks FLOVENT® and FLONASE®. Fluticasone propionate can also be used in the form of a physiologically acceptable solvate.

[0168] Fluticasone propionate has the chemical structure:

V. The TIF2 Co-activator

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[0169] A peptide from the nuclear receptor co-activator TIF2 (SEQ ID NO: 9) was co-crystallized in one aspect of the present invention. Structurally, the nuclear receptor coactivator TIF2 comprises one domain that reacts with a nuclear receptor (nuclear receptor interaction domain, abbreviated "NID") and two autonomous activation domains, AD1 and AD2 (Voegel et al., (1998) EMBO J. 17: 507-519). The TIF2 NID comprises three NR-interacting modules, with each module comprising the motif, LXXLL (SEQ ID NO: 10) (Voegel et al., (1998) EMBO J. 17: 507-519). Mutation of the motif abrogates TIF2's ability to interact with the ligand-induced activation function-2 (AF-2) found in the ligand-binding domains (LBDs) of many NRs. Presently, it is thought that TIF2 AD1 activity is mediated by CREB binding protein (CBP), however, TIF2 AD2 activity does not appear to involve interaction with CBP (Voegel et al., (1998) EMBO J. 17: 507-519).

[0170] In the present invention, residues 740-753 of the TIF2 protein (SEQ ID NO: 9) were co-crystallized with GR and fluticasone propionate. These residues comprise the LXXLL (SEQ ID NO: 10) of AD-2, the third motif in the linear sequence of TIF2. The TIF2 fragment is 13 residues in length and was synthesized using an automated peptide synthesis apparatus. SEQ ID NO: 9, and other sequences corresponding to TIF2 and other co-activators and co-repressors, can be similarly synthesized using automated apparatuses.

VI. Production of GR and Other NR Polypeptides

[0171] In a preferred embodiment, the present invention provides for the first time a GR/TIF2/FP complex. The GR LBD polypeptide of the present invention is expressed as a soluble polypeptide in bacteria, more preferably, in E. coli. The GR polypeptides of the present invention, disclosed herein, can thus now provide a variety of host-expression vector systems to express an NR coding sequence. These include but are not limited to microorganisms such as bacteria transformed with recombinant bacteriophage DNA, plasmid DNA or cosmid DNA expression vectors containing an NR coding sequence; yeast transformed with recombinant yeast expression vectors containing an NR coding sequence; insect cell systems infected with recombinant virus expression vectors (e.g., baculovirus) containing an NR coding sequence; plant cell systems infected with recombinant virus expression vectors (e.g., cauliflower mosaic virus, CaMV; tobacco mosaic virus, TMV) or transformed with recombinant plasmid expression vectors (e.g., Ti plasmid) containing an NR coding sequence; or animal cell systems. The expression elements of these systems vary in their strength and specificities. Methods for constructing expression vectors that comprise a partial or the entire native or mutated NR and GR polypeptide coding sequence and appropriate transcriptional/translational control signals include in vitro recombinant DNA techniques, synthetic techniques and in vivo recombination/genetic recombination. See, for example, the techniques described throughout Sambrook et al., (1989) Molecular Cloning: A Laboratory Manual, Cold Spring Harbor Laboratory, New York, and Ausubel et al., (1989) Current Protocols in Molecular Biology, Greene Publishing Associates and Wiley Interscience, New York, both incorporated herein in their entirety.

[0172] Depending on the host/vector system utilized, any of a number of suitable transcription and translation elements, including constitutive and inducible promoters, can be used in the expression vector. For example, when cloning

in bacterial systems, inducible promoters such as pL of bacteriophage λ, plac, ptrp, ptac (ptrp-lac hybrid promoter) and the like can be used. When cloning in insect cell systems, promoters such as the baculovirus polyhedrin promoter can be used. When cloning in plant cell systems, promoters derived from the genome of plant cells, such as heat shock promoters; the promoter for the small subunit of RUBISCO; the promoter for the chlorophyll a/b binding protein) or from plant viruses (e.g., the 35S RNA promoter of CaMV; the coat protein promoter of TMV) can be used. When cloning in mammalian cell systems, promoters derived from the genome of mammalian cells (e.g., metallothionein promoter) or from mammalian viruses (e.g., the adenovirus late promoter; the vaccinia virus 7.5K promoter) can be used. When generating cell lines that contain multiple copies of the tyrosine kinase domain DNA, SV40-, BPV- and EBV-based vectors can be used with an appropriate selectable marker.

[0173] Adequate levels of expression of nuclear receptor LBDs can be obtained by the novel approaches described herein. High level expression in *E. coli* of ligand binding domains of TR and other nuclear receptors, including members of the steroid/thyroid receptor superfamily, such as the estrogen (ER), androgen (AR), mineralocorticoid (MR), progesterone (PR), RAR, RXR and vitamin D (VDR) receptors can also be achieved after review of the expression of a soluble GR polypeptide in bacteria, more preferably, *E. coli* disclosed herein. The GR polypeptides of the present invention, disclosed herein, can thus now provide a variety of host-expression vector systems. Yeast and other eukaryotic expression systems can be used with nuclear receptors that bind heat shock proteins since these nuclear receptors are generally more difficult to express in bacteria, with the exception of ER, which can be expressed in bacteria. In a preferred embodiment of the present invention, as disclosed in the Examples, a GR LBD is expressed in *E. coli*.

[0174] Representative nuclear receptors or their ligand binding domains have been cloned and sequenced, including human RAR α , human PRAR α , human PRAR α , human RAR α

[0175] Extracts of expressing cells are a suitable source of receptor for purification and preparation of crystals of the chosen receptor. To obtain such expression, a vector can be constructed in a manner similar to that employed for expression of the rat TR alpha (Apriletti et al., (1995) Protein Expres. Purif. 6: 368-370). The nucleotides encoding the amino acids encompassing the ligand binding domain of the receptor to be expressed can be inserted into an expression vector such as the one employed by Apriletti et al. (1995). Stretches of adjacent amino acid sequences can be included if more structural information is desired.

[0176] The native and mutated nuclear receptors in general, and more particularly SR and GR polypeptides, and fragments thereof, of the present invention can also be chemically synthesized in whole or part using techniques that are known in the art (See, e.g., Creighton, (1983) Proteins: Structures and Molecular Principles, W.H. Freeman & Co., New York, United States of America, incorporated herein in its entirety).

[0177] In a preferred embodiment, the present invention provides for the first time a soluble GR/TIF2/FP complex. The GR LBD polypeptide of the present invention is expressed as a soluble polypeptide in bacteria, more preferably, E. coli, and can be subsequently purified therefrom. Representative purification techniques are also disclosed in the Laboratory Examples, particularly Laboratory Examples 1 and 2. The GR polypeptides of the present invention, disclosed herein, can thus now provide the ability to employ additional purification techniques for both liganded and unliganded NRs. Thus, it is envisioned, based upon the disclosure of the present invention, that purification of the unliganded or liganded NR receptor can be obtained by conventional techniques, such as hydrophobic interaction chromatography (e.g., HPLC employing a reversed phase column), ion exchange chromatography (e.g., HPLC employing an IEC column), and heparin affinity chromatography. To achieve higher purification for improved crystals of nuclear receptors it is sometimes preferable to ligand shift purify the nuclear receptor using a column that separates the receptor according to charge, such as an ion exchange or hydrophobic interaction column, and then bind the eluted receptor with a ligand. The ligand induces a change in the receptor's surface charge such that when re-chromatographed on the same column, the receptor then elutes at the position of the liganded receptor and is removed by the original column run with the unliganded receptor. Typically, saturating concentrations of ligand can be used in the column and the protein can be preincubated with the ligand prior to passing it over the column.

[0178] More recently developed methods involve engineering a "tag" such as a plurality of histidine residues placed on an end of the protein, such as on the amino terminus, and then using a nickel chelation column for purification. See Janknecht, (1991) *Proc. Natl. Acad. Sci. U.S.A.* 88: 8972-8976 (1991), incorporated herein by reference.

VII. Formation of NR Ligand Binding Domain Crystals

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[0179] In one embodiment, the present invention provides crystals of GR α LBD. In a preferred embodiment, crystals are obtained using the methodology disclosed in the Laboratory Examples hereinbelow. IN this embodiment, the GR α

LBD crystals, which can be native crystals, derivative crystals or co-crystals, have hexagonal unit cells (a hexagonal unit cell is a unit cell wherein $a = b \neq c$, and wherein $\alpha = \beta = 90^{\circ}$, and $\gamma = 120^{\circ}$) and space group symmetry P6₁. There are two GR α LBD molecules and two TIF2 peptides in the asymmetric unit. In this GR α crystalline form, the unit cell has dimensions of a = b = 127.656 Å, c = 87.725 Å, and $\alpha = \beta = 90^{\circ}$, and $\gamma = 120^{\circ}$. This crystal form can be formed in a crystallization reservoir as described in the Laboratory Examples hereinbelow.

VII.A. Preparation of NR Crystals

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[0180] The native and derivative co-crystals, and fragments thereof, disclosed in the present invention can be obtained by a variety of techniques, including batch, liquid bridge, dialysis, vapor diffusion and hanging drop methods (see, e.g., McPherson, (1982) Preparation and Analysis of Protein Crystals, John Wiley, New York; McPherson, (1990) Eur. J. Biochem. 189:1-23; Weber, (1991) Adv. Protein Chem. 41:1-36). In a preferred embodiment, the vapor diffusion and hanging drop methods are used for the crystallization of NR polypeptides and fragments thereof. A more preferred hanging drop method technique is disclosed in the Laboratory Examples.

[0181] In general, native crystals of the present invention are grown by dissolving substantially pure NR polypeptide or a fragment thereof in an aqueous buffer containing a precipitant at a concentration just below that necessary to precipitate the protein. Water is removed by controlled evaporation to produce precipitating conditions, which are maintained until crystal growth ceases.

[0182] In one embodiment of the invention, native crystals are grown by vapor diffusion (see, e.g., McPherson, (1982) Preparation and Analysis of Protein Crystals, John Wiley, New York; McPherson, (1990) Eur. J. Biochem. 189:1-23). In this method, the polypeptide/precipitant solution is allowed to equilibrate in a closed container with a larger aqueous reservoir having a precipitant concentration optimal for producing crystals. Generally, less than about 25 μL of NR polypeptide solution is mixed with an equal volume of reservoir solution, giving a precipitant concentration about half that required for crystallization. This solution is suspended as a droplet underneath a coverslip, which is sealed onto the top of the reservoir. The sealed container is allowed to stand until crystals grow. Crystals generally form within two to six weeks, and are suitable for data collection within approximately seven to ten weeks. Of course, those of skill in the art will recognize that the above-described crystallization procedures and conditions can be varied.

VII.B. Preparation of Derivative Crystals

[0183] Derivative crystals of the present invention, e.g. heavy atom derivative crystals, can be obtained by soaking native crystals in mother liquor containing salts of heavy metal atoms. Such derivative crystals are useful for phase analysis in the solution of crystals of the present invention. In a preferred embodiment of the present invention, for example, soaking a native crystal in a solution containing methyl-mercury chloride provides derivative crystals suitable for use as isomorphous replacements in determining the X-ray crystal structure of a NR polypeptide. Additional reagents useful for the preparation of the derivative crystals of the present invention will be apparent to those of skill in the art after review of the disclosure of the present invention presented herein.

VII.C. Preparation of Co-crystals

[0184] Co-crystals of the present invention can be obtained by soaking a native crystal in mother liquor containing compounds known or predicted to bind a NR polypeptide or a fragment thereof (including a NR LBD polypeptide or a fragment thereof). Alternatively, co-crystals can be obtained by co-crystallizing a NR polypeptide or a fragment thereof (including a NR LBD polypeptide or fragment thereof) in the presence of one or more compounds known or predicted to bind the polypeptide. In a preferred embodiment, as disclosed in the Examples, such a compound is fluticasone propionate.

VII.D. Solving a Crystal Structure of the Present Invention

[0185] Crystal structures of the present invention can be solved using a variety of techniques including, but not limited to, isomorphous replacement, anomalous scattering or molecular replacement methods. Computer software packages are also helpful in solving a crystal structure of the present invention. Applicable software packages include but are not limited to the CCP4 package disclosed in the Examples, the X-PLOR™ program (Brünger, (1992) X-PLOR, Version 3.1. A System for X-ray Crystallography and NMR, Yale University Press, New Haven, Connecticut; X-PLOR is available from Accelrys of San Diego, California, United States of America, Xtal View (McRee, (1992) J. Mol. Graphics 10: 44-46; X-tal View is available from the San Diego Supercomputer Center). SHELXS 97 (Sheldrick, (1990) Acta Cryst. A 46: 467; SHELX 97 is available from the Institute of Inorganic Chemistry, Georg-August-Universität, Göttingen, Germany), HEAVY (Terwilliger, Los Alamos National Laboratory) and SHAKE-AND-BAKE (Hauptman. (1997) Curr. Opin. Struct.

Biol. 7: 672-80; Weeks et al., (1993) Acta Cryst. D 49: 179; available from the Hauptman-Woodward Medical Research Institute, Buffalo, New York) can be used. See also, Ducruix & Geige. (1992) Crystallization of Nucleic Acids and Proteins: A Practical Approach. IRL Press, Oxford, England, and references cited therein.

5 VIII. Characterization and Solution of a GR Ligand Binding Domain Crystal

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[0186] The ligand binding domains of many nuclear receptors share a degree of identity with one another. This observation can be beneficial to the characterization and solution of a NR crystal in general and a GR LBD crystal in particular. It is also noted that, within the ligand binding domains (LBDs), the sequence identity there is a degree of homology, which is summarized in the following table:

Sequence Identity of NR LBDs				
	GR	MR	PR	AR
GR MR PR	100% 56% 54% 50%	56% 100% 55% 51%	54% 55% 100% 55%	50% 51% 55% 100%

[0187] Turning to Figure 17, a figure depicting a sequence alignment of several NRs, this figure depicts structural and sequence homology between the several NRs, as well as similarities in the overall protein architecture. In Figure 17, secondary structures in GR, PR and AR are indicated by large boxes and by annotation underneath the sequences. The secondary structure attributed to MR is that demonstrated by a homology model of the present invention, as discussed hereinbelow and in the Laboratory Examples. For each line of the alignment, the three-digit number provides the residue number of the first residue in the line. Residues within 5.0 angstroms distance of a bound ligand are identified with small boxes. The bound ligands are FP, progesterone and dihydrotestosterone for GR, PR and AR, respectively, and subunit A was used for the distance calculations in all three cases. Three residues in GR, Met639, Cys643 and Phe740, lie within 5.0 angstroms distance to FP in the GR/FP structure, but do not lie within 5.0 angstroms distance to Dex in the GR/Dex structure. These three residues are denoted in Figure 17 by underlining. Met639 and Cys643 interact with the propionate group in FP, as shown in the schematic diagrams of Figures 8A and 8B, and are involved in the expanded ligand binding pocket. Phe740 lies approximately 5 angstroms from the F-CH₂-thioester group of FP, but fails to make any significant interaction, and is not shown in either of the schematic diagrams of Figures 8A and 8B. [0188] This information, combined with the structural features observed in a GR/FP structure of the present invention, as discussed herein below, can facilitate the design of additional modulators of GR. Such modulators can comprise FP derivatives, which are preferred modulators.

VIII.A Unique Structural Features of the GR/FP/TF2 Structure

[0189] The structure of GR in complex with fluticasone propionate and a TIF2 co-activator peptide reveals several features of the GR structure that, prior to the present disclosure, have not been observed or reported. The detailed structural information about the GR LBD and the expanded binding pocket provided herein can be further exploited to design receptor specific agonists or antagonists.

[0190] One unique feature of the GRα/FP/TIF2 structure relates to the conformation of the GR expanded binding pocket observed when GR binds FP. The GR/FP/TIF2 crystal structure is a significant and unique addition to the knowledge of the three-dimensional structure of the GR and of the associated changes in that structure as a result of the binding of various glucocorticoids. As evidenced in the GR/TIF2/FP crystal structure, the binding of FP induces a conformational change in the GR protein that opens additional volume into which the proponiate side chain of FP extends, leading to an expanded binding pocket. The identification of the expanded binding pocket faciliates the ability to better interpret and explain the structure-activity relationship (SAR) observed for both steroidal and non-steroidal glucocorticoids. Thus, the GR/FP/TIF2 crystal structures disclosed herein can be employed to further explain glucocorticoid binding and GR's functional activity via an analysis of compounds as they occupy the added volume of the expanded binding pocket.

VIII.A.1. The Overall Structure of the GR/TF2/FP Complex

[0191] The GR/TIF2/fluticasone propionate complex of the present invention crystallized in the P6 $_1$ space group with two complexes in each asymmetry unit. Data was collected from a single crystal to a resolution of 2.6 Å. The structure

was solved using the molecular replacement method. A GR/TIF2/dexamethasone structure was used as the initial search model (see Laboratory Example 5). The electron density map calculated with the molecular replacement solutions showed clear tracings for two GR LBD monomers (GR residues 521-777), the LXXLL motifs (SEQ ID NO: 10) of two TIF2 peptides, and two bound molecules of fluticasone propionate (see Figure 2). The statistics of data sets and the refined structures are summarized in Table 1.

[0192] In a preferred embodiment of the crystals, the two GR LBD monomers in each asymmetry unit are packed into a symmetric dimer. Each GR LBD is bound with a molecule of fluticasone propionate and a TIF2 coactivator peptide (see Figure 2). The structure of the GR LBD contains 11 a-helices and 4 small β-strands that fold into a three-layer helical domain with an overall organization closely resembling the structures of PR and AR (Matias et al., (2000) *J. Biol. Chem.* 275:26164-26171; Sack et al., (2001) *Proc. Natl. Acad Sci.* 98:4904-4909; Willams & Sigler, (1998) *Nature* 393:392-396). Helices 1 and 3 form one side of a helical sandwich whereas helices 7 and 10 form the other side. The middle layer of helices (helices 4, 5, 8, and 9) are present in the top half of the protein but are absent in the bottom half of the protein. This arrangement of helices thus creates a cavity in the bottom half of the GR LBD where the fluticasone propionate is bound, and forms an element of an expanded binding pocket. The conformation adopted by FP in the binding pocket is depicted in Figure 3. Figure 3 shows the propionate moiety and the space it occupies in the expanded binding pocket.

[0193] The AF-2 helix, which plays an essential function of ligand-dependent activation, adopts the so-called active or "agonist-bound" conformation that is packed against helices 3, 4, and 10 as an integrated part of the domain structure. Following the AF-2 helix is an extended strand that forms a conserved beta sheet with a β -strand between helices 8 and 9. The LLRYLL sequence (SEQ ID NO: 11) in the TIF2 motif forms a two-turn α -helix that docks the hydrophobic leucine side chains into a groove formed in part by the AF-2 helix and residues from helices 3, 3', 4 and 5 (see Figure 2). Both ends of the coactivator helix are clamped by E754 on the AF-2 helix and K579 on helix 3, respectively. This mode of coactivator binding further stabilizes the overall GR LBD structure and the arrangement of the dimer configuration.

VIII.A.2. Differences Between the GR/TIF2/FP Complex and a GR/Dex/TIF2 Complex

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[0194] Although the GR/TIF2/FP complex is similar to the GR/TIF2/dexamethasone complex ("the Dex structure"; coordinates of this structure are presented in Table 3), there are a number of differences in their crystallization conditions and their detailed structures. First, the FP complex contains a TIF2 peptide that is 10 residues shorter than the TIF2 peptide used in the GR/TIF2/Dex complex. The crystals of the GR/TIF2/FP complex were obtained using MgSO₄ as precipitant, whereas ammonium formate was used to obtain crystals of the GR/TIF2/Dex complex. The crystallization conditions for the GR/TIF2/Dex complex were not preferred for the GR/TIF2/FP complex.

[0195] Second, despite the similar LBD structure and arrangement of the dimer configuration between the FP and the Dex structures, there is a dramatic difference in the ligand binding pocket that is occupied by the propionate group of the fluticasone. This ligand binding pocket is much smaller in size in the GR/Dex structure. Although the 17-α-hydroxyl of dexamethasone points toward this region of the ligand binding pocket, the volume of this ligand binding pocket is largely unoccupied in the Dex structure. The volume of the ligand binding pocket in the FP structure is significantly expanded to accommodate the larger propionate group of fluticasone in both LBD monomers of the dimer, and forms an expanded binding pocket. This expansion in the volume of the ligand binding pocket in the GR/TIF2/FP structure, as compared with the GR/TIF2/Dex structure, is readily seen when Figures 5A and 5B, showing the available pocket volume in the GR/Dex structure, are compared with Figures 6A and 6B, showing the available pocket volume in the GR/TIF2/FP structure. The expanded binding pocket of the FP structure is also depicted in Figure 7A and 7B, where the additional pocket volume of the FP structure over that of the Dex structure is represented by a semi-transparent surface.

[0196] Referring again to Figure 5A, this figure depicts subunit A, and shows dexamethasone, selected side-chains from the protein, and a semi-transparent surface enclosing the volume that is available to oxygen-sized ligand atoms within the ligand binding region of the GR protein in the GR/Dex structure. Figure 5B depicts subunit B, and shows the corresponding ligand molecule, side-chains and pocket volume from subunit B of the same GR/Dex structure. Protein side-chains are depicted with ball and stick representation, using thin sticks and small balls. The dexamethasone ligand is also depicted by a ball and stick representation, but using thicker sticks and larger balls. The pocket volume is depicted by a surface generated over closely-space spheres within the pocket of the GR/Dex structure. The spheres have radius 1.4 angstroms, and are arranged on a rectangular grid with a spacing of 0.3 angstroms. The surface is a "quick" surface generated within the INSIGHTII molecular graphics program using the "very high" surface quality. Atoms are represented by various shades of gray, with carbon darker than nitrogen, which is darker than oxygen, which is darker than sulfur. Fluorine is represented by a shade similar to nitrogen, but can be distinguished from nitrogen because the protein has no fluorine atoms, and the dexamethasone molecule has no nitrogens. The shades are gray are further modified by the use of depth queueing to help distinguish foreground and background features.

[0197] Turning next to Figure 6A, this figure depicts GR subunit A, and shows FP, selected side-chains from the protein, and a semi-transparent surface enclosing the volume that is available to oxygen-sized ligand atoms within the ligand binding region of the GR protein in the GR/TIF2/FP structure. Figure 6B depicts GR subunit B, showing the corresponding ligand molecule, side-chains and pocket volume from GR subunit B of the same GR/TIF2/FP structure. This figure was generated using the same methods as Figures 5A and 5B and uses the same representation and shading for atoms and volumes.

[0198] Figure 7A depicts GR GR subunit A, and shows FP, selected side-chains from the protein in the GR/FP/TIF2 structure, and a semi-transparent surface enclosing the "extra volume" that is available in the GR/FP ligand binding pocket, but not in the GR/Dex ligand binding pocket. This "extra" volume is essentially the volume depicted in Figure 5A subtracted from the volume depicted in Figure 6A and contributes to the expanded binding pocket observed in the GR/TIF2/FP structure. The available volumes in the structures were represented computationally by a collection of closely-spaced water-sized spheres. The extra volume in the GR/TIF2/FP structure was identified computationally by comparing these two collections of water-sized spheres, represented by a collection of closely-spaced spheres of radius 0.2 angstroms, and then depicted by generation of the semi-transparent surface.

[0199] Figure 7B depicts GR subunit B, and shows the corresponding ligand molecule, side-chains and "extra volume" from GR subunit B. The representation and shading for atoms is the same as Figures 5A and 5B above. The "extra volume" is depicted by a surface generated over closely-space spheres occupying the region of the GR/TIF2/FP pocket, (see Figures 6A and 6B), that is not available in the GR/Dex structure, (see Figures 5A and 5B). The spheres used for the surface calculation have a radius of 0.2 angstroms, and are arranged on a rectangular grid with a spacing of 0.3 angstroms.

[0200] Figure 8A is a schematic representation of molecular interactions between the bound FP ligand and residues in the GR protein in subunit A. The dashed lines depict most of the significant interactions of 5.0 angstroms or less, although several of the less important interactions have been omitted for clarity. The propionate side-chain adopts different conformations in the two subunits, and the approximate conformation in subunit A is depicted schematically here. Several side-chains in the protein adopt different conformations in the two subunits. While these side-chain conformations are not represented explicitly, their interactions with the ligand, and differences in these interactions in GR subunits A and B, are represented.

[0201] Figure 8B is a schematic representation of molecular interactions between the found FP ligand and residues in the GR protein in GR subunit B. The dashed lines depict most of the significant interactions of 5.0 angstroms or less, although several of the less important interactions have been omitted for clarity. The propionate side-chain adopts different conformations in the two subunits, and the approximate conformation in GR subunit B is depicted schematically in Figure 8B.

[0202] There are no large conformational changes of helices or loops between the FP and Dex structures, consistent with the observation that both ligands bound with high affinity. Instead, the larger expanded binding pocket in the FP structure is formed by gently pushing out helices 3, 6, 7 and 10 and the loop preceding the AF-2 helix, which make up the framework of the ligand binding pocket (see Figure 4). The subtle changes in the conformation of these helices and loops in the FP structure, which are highlighted in Figure 4 by arrows, would be difficult to predict by modeling the GR/TIF2/Dex structure.

[0203] The expanded binding pocket is surrounded by side chains of more than 10 residues, including M560, L563, F623, M639, Q642, M643, M646, Y735, C736, T739 and 1747. Conformations of these side chains generally favor formation of the larger expanded binding pocket in the FP structure. By way of example, in order to assume the observed positions, residues Q642 and Y735 in monomer B undego a large conformational changes. Residue Q642, on the other hand, flips out of pocket to the space that is normally occupied by Y735. The conformational changes of these two residues contribute to an expanded binding pocket in this LBD monomer (see Table 2). The expanded binding pocket in the FP structure is a feature making the present invention distinct from known GR structures (e.g. the GR/TIF2/Dex structure, atomic coordinates of which are presented in Table 3) and offers several advantages for structure-based drug discovery over the use of the GR/TIF2/Dex structure.

VIII.E. Generation of Easily-Solved NR Crystals

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[0204] The present invention discloses a substantially pure GR LBD polypeptide in crystalline form. In a preferred embodiment, exemplified in the Figures and Laboratory Examples, $GR\alpha$ is crystallized with a bound ligand and a bound co-activator peptide. Crystals can be formed from NR LBD polypeptides that are usually expressed by a cell culture, such as $E.\ coli.$ Bromo- and iodo-substitutions can be included during the preparation of crystal forms and can act as heavy atom substitutions in GR ligands and crystals of NRs. This method can be advantageous for the phasing of the crystal, which is a crucial, and sometimes limiting, step in solving the three-dimensional structure of a crystallized entity. Thus, the need for generating the heavy metal derivatives traditionally employed in crystallography can be eliminated. After the three-dimensional structure of a NR or an NR LBD with or without a ligand and/or a co-activator bound is

determined, the resultant three-dimensional structure can be used in computational methods to design synthetic ligands for a NR and for other NR polypeptides. Further activity structure relationships can be determined through routine testing employing assays disclosed herein and known in the art.

5 IX. Uses of NR Crystals and the Three-Dimensional Structure of the Ligand Binding Domain of GRα

[0205] The solved crystal structure of the present invention is useful in the design of modulators of activity mediated by the glucocorticoid receptor and by other nuclear receptors. Evaluation of the available sequence data shows that GR α is particularly similar to MR, PR and AR. The GR α LBD has approximately 56%, 54% and 50% sequence identity to the MR, PR and AR LBDs, respectively. The GR β amino acid sequence is identical to the GR α amino acid sequence for residues 1-726, but the remaining 16 residues in GR β show no significant similarity to the remaining 51 residues in GR α .

[0206] The present GR α X-ray structure can also be used to build models for targets where no X-ray structure is available, such as MR. Additionally, targets whose X-ray structures have been solved (e.g. AR and PR), do not comprise an expanded binding pocket. Thus, these previously solved structures cannot be effectively employed in an attempt to model these structures in association with a ligand comprising a large 17α substituent. By employing a GR α X-ray structure of the present invention, however, such models can be generated. These generated models can aid in the design of compounds to selectively modulate any desired subset of GR α , MR, PR, AR and other related nuclear receptors.

20 [0207] Various models can be built, such as homology models and docking models. Indeed, homology models of AR, MR and PR form aspects of the present invention. These models incorporate the expanded binding pocket observed in the GR/TIF2/FP structure. Although a few NR structures are available, theses structures do not comprise an expanded binding pocket and are therefore of limited use in rational drug design.

IX.A. Design and Development of NR Modulators

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[0208] The present invention, particularly the computational methods, can be used to design drugs for a variety of nuclear receptors, such as receptors for glucocorticoids (GRs), androgens (ARs), mineralocorticoids (MRs) and progestins (PRs).

[0209] The knowledge of the structure of the GRα ligand binding domain (LBD), an aspect of the present invention, provides a tool for investigating the mechanism of action of GRα and other NR polypeptides in a subject. For example, various computer modelleing programs, as described herein, can predict the binding of various ligand molecules to the LBD of GRβ, or another steroid receptor or, more generally, nuclear receptor. Upon discovering that such binding in fact takes place, knowledge of the protein structure then allows design and synthesis of small molecules that mimic the functional binding of the ligand to the LBD of GRα, and to the LBDs of other polypeptides. This is the method of "rational" drug design, further described herein.

[0210] Use of the isolated and purified $GR\alpha$ crystalline structure of the present invention in rational drug design is thus provided in accordance with the present invention. Additional rational drug design techniques are described in U. S. Patent Nos. 5.834,228 and 5.872,011, incorporated herein in their entirety.

[0211] Thus, in addition to the compounds described herein, other sterically similar compounds can be formulated to interact with the key structural regions of an NR, SR or GR in general, or of $GR\alpha$ in particular. The generation of a structural functional equivalent can be achieved by the techniques of modeling and chemical design known to those of skill in the art and described herein. It will be understood that all such sterically similar constructs fall within the scope of the present invention.

IX.A.1. Rational Drug Design

[0212] The three-dimensional structure of a FP bound $GR\alpha$ is unprecedented and will greatly aid in the development of new synthetic ligands for NR polypeptides, such as GR agonists and antagonists, including those that bind exclusively to any one of the GR subtypes. In addition, NRs are well suited to modern methods, including three-dimensional structure elucidation and combinatorial chemistry, such as those disclosed in U.S. Patent Nos. 5,463,564, and 6,236,946 incorporated herein by reference. Structure determination using X-ray crystallography is possible because of the solubility properties of NRs. Computer programs that use crystallography data when practicing the present invention will enable the rational design of ligands to these receptors.

[0213] Programs such as RASMOL (Biomolecular Structures Group, Glaxo Wellcome Research & Development Stevenage, Hertfordshire, UK Version 2.6, August 1995, Version 2.6.4, December 1998, © Roger Sayle 1992-1999) and Protein Explorer (Version 1.87, July 3, 2001, © Eric Martz, 2001 and available online at http://www.umass.edu/microbio/chime/explorer/index.htm) can be used with the atomic structural coordinates from crystals generated by

practicing the invention or used to practice the invention by generating three-dimensional models and/or determining the structures involved in ligand binding. Computer programs such as those sold under the registered trademark IN-SIGHTI® (available from Accelrys of San Diego, California, United States of America) and the programs GRASP (Nicholls et al., (1991) Proteins 11: 281) and SYBYLTM (available from Tripos, Inc. of St. Louis, Missouri, United States of America) allow for further manipulations and the ability to introduce new structures. In addition, high throughput binding and bioactivity assays can be devised using purified recombinant protein and modern reporter gene transcription assays known to those of skill in the art in order to refine the activity of a designed ligand.

[0214] A method of identifying modulators of the activity of an NR polypeptide using rational drug design is thus provided in accordance with the present invention. The method comprises designing a potential modulator for an NR polypeptide of the present invention that will form non-covalent interactions with amino acids in the ligand binding pocket based upon the crystalline structure of the GR α LBD polypeptide; synthesizing the modulator; and determining whether the potential modulator modulates the activity of the NR polypeptide. In a preferred embodiment, the modulator is designed for a GR α polypeptide. In a more preferred embodiment, the modulator is designed for a GR α polypeptide. Preferably, the GR α polypeptide comprises the amino acid sequence of SEQ ID NOs: 2 and 4 and more preferably, the GR α LBD comprises the amino acid sequence of SEQ ID NOs: 6 and 8. The determination of whether the modulator modulates the biological activity of an NR polypeptide is made in accordance with the screening methods disclosed herein, or by other screening methods known to those of skill in the art. Modulators can be synthesized using techniques known to those of ordinary skill in the art.

[0215] In an alternative embodiment, a method of designing a modulator of an NR polypeptide in accordance with the present invention is disclosed comprising: (a) selecting a candidate NR ligand; (b) determining which amino acid or amino acids of an NR polypeptide interact with the ligand using a three-dimensional model of a crystallized $\mathsf{GR}\alpha$ LBD in complex with a co-activator peptide and fluticasone propionate; (c) identifying in a biological assay for NR activity a degree to which the ligand modulates the activity of the NR polypeptide; (d) selecting a chemical modification of the ligand wherein the interaction between the amino acids of the NR polypeptide and the ligand is predicted to be modulated by the chemical modification; (e) synthesizing a chemical compound with the selected chemical modification to form a modified ligand; (f) contacting the modified ligand with the NR polypeptide; (g) identifying in a biological assay for NR activity a degree to which the modified ligand modulates the biological activity of the NR polypeptide; and (h) comparing the biological activity of the NR polypeptide in the presence of modified ligand with the biological activity of the NR polypeptide in the presence of the unmodified ligand, whereby a modulator of an NR polypeptide is designed. [0216] An additional method of designing modulators of an NR or an NR LBD can comprise: (a) determining which amino acid or amino acids of an NR LBD interacts with a first chemical moiety (at least one) of the ligand using a three dimensional model of a crystallized protein comprising an NR LBD in complex with a bound ligand; and (b) selecting one or more chemical modifications of the first chemical moiety to produce a second chemical moiety with a structure to either decrease or increase an interaction between the interacting amino acid and the second chemical molety compared to the interaction between the interacting amino acid and the first chemical moiety. A structure disclosed herein, namely a structure comprising a $GR\alpha$ LBD in complex with fluticasone propionate, can be employed in this method. This is a general strategy only, however, and variations on this disclosed protocol would be apparent to those of skill in the art upon consideration of the present disclosure.

[0217] Once a candidate modulator is synthesized as described herein and as will be known to those of skill in the art upon contemplation of the present invention, it can be tested using assays to establish its activity as an agonist, partial agonist or antagonist, and affinity, as described herein. After such testing, a candidate modulator can be further refined by generating LBD crystals with the candidate modulator bound to the LBD. The structure of the candidate modulator can then be further refined using the chemical modification methods described herein for three dimensional models to improve the activity or affinity of the candidate modulator and make second generation modulators with improved properties, such as that of a super agonist or antagonist, as described herein.

IX.A.2. Methods for Using the GRlpha LBD Structural Coordinates For Molecular Design

[0218] The present invention permits the use of molecular design techniques to design, select and synthesize chemical entities and compounds, including modulatory compounds, capable of binding to the ligand binding pocket or an accessory binding site of an NR and an NR LBD, in whole or in part. Correspondingly, the present invention also provides for the application of similar techniques in the design of modulators of any NR polypeptide.

[0219] In accordance with a preferred embodiment of the present invention, the structure coordinates of a crystalline $GR\alpha$ LBD in complex with a co-activator and fluticasone propionate can be employed to design compounds that bind to a GR LBD (more preferably a $GR\alpha$ LBD) and alter the properties of a GR LBD (for example, the dimerization ability, ligand binding ability or effect on transcription) in different ways. One aspect of the present invention provides for the design of compounds that can compete with natural or engineered ligands of a GR polypeptide by binding to all, or a portion of, the binding sites on a GR LBD. The present invention also provides for the design of compounds that can

bind to all, or a portion of, an accessory binding site on a GR that is already binding a ligand. Similarly, non-competitive agonists/ligands that bind to and modulate GR LBD activity, whether or not it is bound to another chemical entity, and partial agonists and antagonists can be designed using the GR LBD structure coordinates of this invention.

[0220] A second design approach is to probe an NR or an NR LBD (preferably a GR α or GR α LBD) crystal with molecules comprising a variety of different chemical entities to determine optimal sites for interaction between candidate NR or NR LBD modulators and the polypeptide. For example, high resolution X-ray diffraction data collected from crystals saturated with solvent allows the determination of the site where each type of solvent molecule adheres. Small molecules that bind tightly to those sites can then be designed and synthesized and tested for their NR modulator activity. Representative designs are also disclosed in published PCT application WO 99/26966.

[0221] Once a computationally-designed ligand is synthesized using the methods of the present invention or other methods known to those of skill in the art, assays can be used to establish its efficacy of the ligand as a modulator of NR (preferably GRα) activity. After such assays, the ligands can be further refined by generating intact NR or NR LBD crystals with a ligand and/or a co-activator peptide bound to the LBD. The structure of the ligand can then be further refined using the chemical modification methods described herein and known to those of skill in the art, in order to improve the modulation activity or the binding affinity of the ligand. This process can lead to second generation ligands with improved properties.

[0222] Ligands also can be selected that modulate NR responsive gene transcription by the method of altering the interaction of co-activators and co-repressors with their cognate NR. For example, agonistic ligands can be selected that block or dissociate a co-repressor from interacting with a GR, and/or that promote binding or association of a co-activator. Antagonistic ligands can be selected that block co-activator interaction and/or promote co-repressor interaction with a target receptor. Selection can be done via binding assays that screen for designed ligands having the desired modulatory properties. Preferably, interactions of a GRα polypeptide are targeted. A suitable assay for screening that can be employed, *mutatis mutandis* in the present invention, as described in Oberfield et al., (1999) *Proc. Natl. Acad. Sci. U. S. A.* 96(11): 6102-6, incorporated herein in its entirety by reference. Other examples of suitable screening assays for GR function include an *in vitro* peptide binding assay representing ligand-induced interaction with coactivator (Zhou et al., (1998) *Mol. Endocrinol.* 12: 1594-1604; Parks et al., (1999) *Science* 284: 1365-1368) or a cell-based reporter assay related to transcription from a GRE (see Jenkins et al., (2001) *Trends Endocrinol. Metab.* 12: 122-126) or a cell-based reporter assay related to repression of genes driven via NF-kB (DeBosscher et al., (2000) *Proc. Natl. Acad. Sci. U. S. A.* 97: 3919-3924).

IX.A.3. Methods of Designing NR LBD Modulator Compounds

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[0223] Knowledge of the three-dimensional structure of the GR LBD complex of the present invention can facilitate a general model for modulator (e.g. agonist, partial agonist, antagonist and partial antagonist) design. Other ligand-receptor complexes belonging to the nuclear receptor superfamily can have a ligand binding pocket similar to that of GR and therefore the present invention can be employed in agonist/antagonist design for other members of the nuclear receptor superfamily and the steroid receptor subfamily. Examples of suitable receptors include those of the NR superfamily and those of the SR and TR subfamilies.

[0224] The design of candidate substances, also referred to as "compounds" or "candidate compounds", that augment or inhibit NR LBD-mediated activity according to the present invention generally involves consideration of two factors. First, the compound must be capable of physically and structurally associating with a NR LBD. Non-covalent molecular interactions important in the association of a NR LBD with its substrate include hydrogen bonding, van der Waals interactions and hydrophobic interactions.

[0225] The interaction between an atom of a LBD amino acid and an atom of an LBD ligand can be made by any force or attraction described in nature. Usually the interaction between the atom of the amino acid and the ligand will be the result of a hydrogen bonding interaction, charge interaction, hydrophobic interaction, van der Waals interaction or dipole interaction. In the case of the hydrophobic interaction it is recognized that this is not a per se interaction between the amino acid and ligand, but rather the usual result, in part, of the repulsion of water or other hydrophilic group from a hydrophobic surface. Reducing or enhancing the interaction of the LBD and a ligand can be measured by calculating or testing binding energies, computationally or using thermodynamic or kinetic methods as known in the art.

[0226] Second, the compound must be able to assume a conformation that allows it to associate with a NR LBD. Although certain portions of the compound might not directly participate in this association with a NR LBD, those portions can still influence the overall conformation of the molecule. This, in turn, can have a significant impact on potency. Such conformational requirements include the overall three-dimensional structure and orientation of the chemical entity or compound in relation to all or a portion of the binding site, e.g., the ligand binding pocket or an accessory binding site of a NR LBD, or the spacing between functional groups of a compound comprising several chemical entities that directly interact with a NR LBD.

[0227] Chemical modifications will often enhance or reduce interactions of an atom of a LBD amino acid and an atom of an LBD ligand. Altering a degree of steric hinderance is one approach that can be employed to alter the interaction of a LBD binding pocket with an activation domain. Chemical modifications are preferably introduced at C-, C-H, and C-OH positions in a ligand, where the carbon is part of the ligand structure that remains the same after modification is complete. In the case of C-H, C could have 1, 2 or 3 hydrogens, but typically only one hydrogen is replaced. An H or OH can be removed after modification is complete and replaced with a desired chemical moiety.

[0228] The potential modulatory or binding effect of a chemical compound on a NR LBD can be analyzed prior to its actual synthesis and testing by the use of computer modeling techniques that employ the coordinates of a crystalline $\mathsf{GR}\alpha$ LBD polypeptide of the present invention. If the theoretical structure of the given compound suggests insufficient interaction and association between it and a NR LBD, synthesis and testing of the compound is obviated. However, if computer modeling indicates a strong interaction, the molecule can then be synthesized and tested for its ability to bind and modulate the activity of a NR LBD. In this manner, synthesis of unproductive or inoperative compounds can

[0229] A modulatory or other binding compound of a NR LBD polypeptide (preferably a GR α LBD) can be computationally evaluated and designed via a series of steps in which chemical entities or fragments are screened and selected for their ability to associate with an individual binding site or other area of a crystalline $GR\alpha$ LBD polypeptide of the present invention and to interact with the amino acids disposed in the binding sites.

[0230] Interacting amino acids forming contacts with a ligand and the atoms of the interacting amino acids are usually 2 to 4 angstroms away from the center of the atoms of the ligand. Generally these distances are determined by computer as discussed herein and by McRee (McRee, (1993) Practical Protein Crystallography, Academic Press, New York), however distances can be determined manually once the three dimensional model is made. More commonly, the atoms of the ligand and the atoms of interacting amino acids are 3 to 4 angstroms apart. A ligand can also interact with distant amino acids, after chemical modification of the ligand to create a new ligand. Distant amino acids are generally not in contact with the ligand before chemical modification. A chemical modification can change the structure of the ligand to make as new ligand that interacts with a distant amino acid usually at least 4.5 angstroms away from the ligand. Often distant amino acids will not line the surface of the binding cavity for the ligand, as they are too far away from the ligand to be part of a pocket or surface of the binding cavity.

[0231] A variety of methods can be used to screen chemical entities or fragments for their ability to associate with an NR LBD and, more particularly, with the individual binding sites of an NR LBD, such as ligand binding pocket or an accessory binding site. This process can begin by visual inspection of, for example, the ligand binding pocket on a computer screen based on the GR α LBD atomic coordinates presented in Tables 2-11 as described herein. Selected fragments or chemical entities can then be positioned in a variety of orientations, or docked, within an individual binding site of a GR α LBD as defined herein above. Docking can be accomplished using software programs such as those available under the tradenames QUANTATM (Accelrys of San Diego, California, United States of America) and SYB-YLTM (Tripos, Inc., St. Louis, Missouri, United States of America), followed by energy minimization and molecular dynamics with standard molecular mechanics forcefields, such as CHARM (Brooks et al., (1983) J. Comp. Chem., 8: 132) and AMBER 5 (Case et al., (1997), AMBER 5, University of California, San Francisco, California, United States of America; Pearlman et al., (1995) Comput. Phys. Commun. 91:1-41).

[0232] Specialized computer programs can also assist in the process of selecting fragments or chemical entities. These include:

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- 1. GRID™ program, version 17 (Goodford, (1985) J. Med. Chem. 28:849-57), which is available from Molecular
- 2. MCSS[™] program (Miranker & Karplus, (1991) Proteins 11:29-34), which is available from Accelrys of San Diego,
- 3. AUTODOCK™ 3.0 program (Goodsell & Olsen, (1990) Proteins 8:195-202), which is available from the Scripps Research Institute, La Jolla, California, United States of America;
- 4. DOCK™ 4.0 program (Kuntz et al., (1992) J. Mol. Biol. 161:269-88), which is available from the University of California, San Francisco, California, United States of America;
- 5. FLEX-X™ program (See, Rarey et al., (1996) J. Comput. Aid. Mol. Des. 10:41-54), which is available from Tripos, Inc., St. Louis, Missouri, United States of America;
- 6. MVP program (Lambert, (1997) in Practical Application of Computer-Aided Drug Design, (Charifson, ed.) Marcel-Dekker, New York, New York, United States of America, pp. 243-303); and
- 7. LUDI™ program (Bohm, (1992) J. Comput. Aid. Mol. Des. 6:61-78), which is available from Accelrys of San Diego, California, United States of America.

[0233] Once suitable chemical entities or fragments have been selected, they can be assembled into a single compound or modulator. Assembly can proceed by visual inspection of the relationship of the fragments to each other on

the three-dimensional image displayed on a computer screen in relation to the structure coordinates of a GRα LBD. Manual model building using software such as QUANTATM or SYBYLTM typically follows.

[0234] Useful programs to aid one of ordinary skill in the art in connecting the individual chemical entities or fragments include:

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- 1. CAVEAT™ program (Bartlett et al., (1989) Special Pub., Royal Chem. Soc. 78:182-96), which is available from the University of California, Berkeley, California, United States of America;
- 2. 3D Database systems, such as MACCS-3D™ system program, which is available from MDL Information Systems, San Leandro, California, United States of America. This area is reviewed in Martin, (1992) *J. Med. Chem.* 35:2145-54; and
- 3. HOOK™ program (Eisen et al., (1994). *Proteins* 19:199-221), which is available from Accelrys of San Diego, California, United States of America.

[0235] Instead of proceeding to build a GR LBD modulator (preferably a GRα LBD modulator) in a step-wise fashion one fragment or chemical entity at a time as described above, modulatory or other binding compounds can be designed as a whole or *de novo* using the structural coordinates of a crystalline GRα LBD polypeptide of the present invention and either an empty binding site or optionally including some portion(s) of a known modulator(s). Applicable methods can employ the following software programs:

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- 1. LUDI™ program (Bohm, (1992) *J. Comput. Aid. Mol. Des.* 6:61-78), which is available from Accelrys of San Diego, California, United States of America;
- 2. LEGEND™ program (Nishibata & Itai, (1991) Tetrahedron 47:8985); and
- 3. LEAPFROG™, which is available from Tripos Associates, St. Louis, Missouri, United States of America.

[0236] Other molecular modeling techniques can also be employed in accordance with this invention. See, e.g., Cohen et al., (1990) *J. Med. Chem.* 33: 883-94. See also, Navia & Murcko, (1992) Curr. Opin. Struc. Biol. 2: 202-10; U.S. Patent No. 6,008,033, herein incorporated by reference.

[0237] Once a compound has been designed or selected by the above methods, the efficiency with which that compound can bind to a NR LBD can be tested and optimized by computational evaluation. By way of particular example, a compound that has been designed or selected to function as a NR LBD modulator should also preferably traverse a volume not overlapping that occupied by the binding site when it is bound to its native ligand. Additionally, an effective NR LBD modulator should preferably demonstrate a relatively small difference in energy between its bound and free states (i.e., a small deformation energy of binding). Thus, the most efficient NR LBD modulators should preferably be designed with a deformation energy of binding of not greater than about 10 kcal/mole, and preferably, not greater than 7 kcal/mole. It is possible for NR LBD modulators to interact with the polypeptide in more than one conformation that is similar in overall binding energy. In those cases, the deformation energy of binding is taken to be the difference between the energy of the free compound and the average energy of the conformations observed when the modulator binds to the polypeptide.

[0238] A compound designed or selected as binding to an NR polypeptide (preferably a GR α LBD polypeptide) can be further computationally optimized so that in its bound state it would preferably lack repulsive electrostatic interaction with the target polypeptide. Such non-complementary (e.g., electrostatic) interactions include repulsive charge-charge, dipole-dipole and charge-dipole interactions. Specifically, the sum of all electrostatic interactions between the modulator and the polypeptide when the modulator is bound to an NR LBD preferably make a neutral or favorable contribution to the enthalpy of binding.

[0239] Specific computer software is available in the art to evaluate compound deformation energy and electrostatic interaction. Examples of programs designed for such uses include:

- 1. Gaussian 98TM, which is available from Gaussian, Inc., Pittsburgh, Pennsylvania, United States of America;
- 2. AMBERTM program, version 6.0, which is available from the University of California at San Francisco, San Francisco, California, United States of America;
- 3. QUANTA™ program, which is available from Accelrys of San Diego, California, United States of America;
- 4. CHARMm® program, which is available from Accelrys of San Diego, California, United States of America; and
- 5. Insight II® program, which is available from Accelrys of San Diego, California, United States of America.

55 [0240] These programs can be implemented using a suitable computer system. Other hardware systems and soft-ware packages will be apparent to those skilled in the art after review of the disclosure of the present invention presented herein.

[0241] Once an NR LBD modulating compound has been optimally selected or designed, as described above, sub-

stitutions can then be made in some of its atoms or side groups in order to improve or modify its binding properties. Generally, initial substitutions are conservative, i.e., the replacement group will have approximately the same size, shape, hydrophobicity and charge as the original group. It should, of course, be understood that components known in the art to alter conformation are preferably avoided. Such substituted chemical compounds can then be analyzed for efficiency of fit to an NR LBD binding site using the same computer-based approaches described in detail above.

IX.B. Design of Modulators Based on the Expanded Binding Pocket of GR Observed in the GR/FP/TIF2 Structure

[0242] The GR/FP/TIF2 expanded binding pocket described herein can be employed to explain a significant amount of the SAR in the non-steroidal class of compounds for these receptors. Additional insight into the SAR of the steroidal class of glucocorticoids can also be obtained using these models derived from the GR/FP/TIF2 crystal structure.

[0243] The expanded binding pocket of GR can also be employed in the design of novel steroidal and non-steroidal glucocorticoids. For example, *de novo* design of these ligands can be carried out in the context of the crystal structure using both intuition, manual processing of compounds, or various *de novo* drug design programs such as LUDI™ (Accelrys Inc., San Diego, California, United States of America) and LEAPFROG™ (Tripos Inc., St. Louis, Missouri, United States of America), as discussed herein.

[0244] The GR/FP/TIF2 crystal structure (particularly the region comprising additional volume seen in the binding pocket of the GR/TIF2/FP structure, which contributes to the expanded binding pocket) can be further employed to construct quantitative structure-activity relationship (QSAR) models through the crystal structure or combination of the crystal structure, calculated molecular descriptors, or calculated properties of the crystal structure such as those derived from molecular mechanics (MM) calculations.

[0245] Thus, the region comprising additional volume seen in the binding pocket of the GR/TIF2/FP structure can be used in various capacities to explain the SAR of various binders of these proteins, to design *de novo* high affinity ligands, to predict the binding affinities or functional activity based on a QSAR model, or to electronically screen small to large collections of compounds at high-throughput.

[0246] As an example of the utility of the expanded binding pocket in modeling non-steroidal glucocorticoids, a docking model study was performed. The study involved the benzoxazin-1-one compound (Schering AG, Berlin, Germany; the compound is described in published PCT patent application WO 02/10143, incorporated herein by reference), which has the IUPAC name 4-(5-fluoro-2-hydroxyphenyl)-2-hydroxy-4-methyl-2-trifluoromethyl-pentanoic acid (4-methyl-1-oxo-1H-benzo[d][1,2]oxazine-6-yl)-amide and the chemical structure:

In one aspect of the present invention, this compound was modeled in the GR active site; the process and results of this modeling is presented hereinbelow in Example 6. Before the disclosure of the present invention, attempts to model this compound into the GR binding pocket were unsuccessful. Thus through the discovery of the expanded binding pocket, which forms another aspect of the present invention, a viable binding mode of this compound has been proposed.

50 [0247] In a further example, the non-steroidal compound A-222977 was modeled in the GR active site (see Laboratory Example 9). A-222977 has the IUPAC name 10-methoxy-2,2,4-trimethyl-5-(3-methylsulfonylmethoxyphenyl)-2,5-dihydro-1H-6-oxa-1-azachrysene and the chemical structure:

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IX.C. Homology Modeling of Nuclear Receptors Using the GR/FP/TIF2 Crystal Structure

[0248] In yet another aspect of the present invention, the GR/FP structure disclosed herein can form a basis for generating homology models of other nuclear receptors. Homology modeling of a target protein generally involves the incremental substitution of amino acids of a related template protein in the attempt to produce a model of the target protein structure. This exercise assumes the template and target proteins to be related in their overall three-dimensional shape. This assumption is supported by other factors including similarity in primary amino acid sequence, receptor family membership, etc. A goal of creating a homology model can be, but need not be, to capture all of the detail usually found in a crystal structure. Preferably at least those essential portions of the protein's structure that are essential to describing its functional activity, small molecule binding properties, and other characteristics are considered. Therefore, to validate the utility of a homology model, it is preferable to infer from the model some explanation of experimentally observed data and/or information about the target protein, such as its binding affinities for various small molecules. Also, as further evidence relating a target protein's properties to its structure is acquired, it is possible to continue to refine various aspects of the homology model to account for this information. Thus, as more information is gathered and further experiments are conducted on the target protein, the homology model continues to improve and reflect the target protein's true functional nature.

[0249] For purposes of illustration, the generation of homology models of AR and PR based on a GR/FP/TIF2 structure of the present invention are discussed (see also Laboratory Examples 6-8). In the cases of AR and PR, crystal structures of these proteins have been determined previously for each of their respective natural steroidal ligands, dihydrotestosterone (DHT) (Sack et al., (2001) Proc. Natl. Acad Sci. 98:4904-4909.) and progesterone (PG) (Willams & Sigler, (1998) Nature 393:392-396), and the steroidal compound R1881 (Matias et al., (2000) J. Biol. Chem. 275: 26164-26171). Although these crystal structures account for aspects of the steroidal structure activity relationships (SAR) among these receptors, the structures fail to account for the SAR of the non-steroidal compounds that are known to bind either or both AR and PR. For example, in the case of AR, bicalutamide (N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methylpropanamide) (U.S. Patent No. 4,636,505 and Tucker et al., (1988) J. Med. Chem. 31:954), a known, non-steroidal antagonist, binds AR with high-affinity, but this activity has not, and indeed cannot, be explained in the context of the AR crystal structures. Bicalutamide has the the IUPAC name N-(4-cyano-3-trifluoromethylphenyl)-3-(4-fluorobenzenesulfonyl)-2-hydroxy-2-methylpropionamide and the chemical structure:

Similarly, RWJ-60130 (U.S. Patent No. 5,684,151; Palmer et al., (2001) *J. Steroid. Biochem. Mol. Biol.* 75:33-42), a known, potent, non-steroidal agonist, binds PR with a high-affinity, but, as with AR and bicalutamide, its activity has not and cannot be explained in the context of the PR crystal structures. RWJ-60130 has the IUPAC name 3-(4-chloro-3-trifluoromethylphenyl)-1-(4-iodobenzensulfonyl)-6-methyl-1,4,5,6-tetrahydropyridazine and the chemical structure:

In both cases, the inexplicability of the compounds' high affinity is related to the size of the compounds; these non-steroidal ligands are simply too large to fit in the ligand binding pockets as depicted in the AR and PR crystal structures. [0250] With the solution of a GR/FP/TIF2 crystal structure and the appearance of an expanded binding pocket as provided by the present invention, construction of AR and PR (and other NR) homology models that explain the SAR of these large, potent binders became possible. Also, given the high sequence identity in the LBD of GR to AR (50%) and PR (54%) and receptor family similarity (as depicted hereinabove), a similar expanded binding pocket is expected to materialize in AR and PR under appropriate conditions. Thus, the construction of AR and PR homology models bound with bicalutamide and RWJ-60130, respectively, can be undertaken using the crystal structure of GR bound with FP and a TIF2 peptide.

[0251] It is noted that prior to the disclosure of the present invention, accurate AR, MR and PR homology and docking models could not be generated. Although structures for AR, MR and PR have been published, these structures do not account for the expanded binding pocket observed in the present GR/TIF2/FP structure. The presence of the expanded binding pocket is useful in explaining the observed binding of ligands to NRs. Models that do not include the expanded binding pocket cannot adequately explain observed binding modes. Therefore, models generated employing previous known NR structures that do not include the expanded binding pocket are incomplete and are not the best representation of the NR structures for which the models were generated. Moreover, models lacking the expanded binding pocket are not the best models to employ in the rational design of NR modulators.

[0252] Thus, in one embodiment, a data structure embodied in a computer-readable medium is provided. Preferably, the data structure comprises: a first data field containing data representing spatial coordinates of an NR LBD comprising an expanded binding pocket, wherein the first data field is derived by combining at least a part of a second data field with at least a part of a third data field, and wherein (a) the second data field contains data representing spatial coordinates of the atoms comprising a GR LBD comprising an expanded binding pocket in complex with a ligand; and (b) the third data field contains data representing spatial coordinates of the atoms comprising a NR LBD.

IX.C.1. Applications of NR Homology Models

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[0253] The NR (and particularly AR, MR and PR) homology models described herein can be employed to explain a majority of the SAR in the non-steroidal class of compounds for these receptors. Additional insight into the SAR of the steroidal class of compounds for NRs, such as AR and PR can also be obtained using these models.

[0254] These models can be employed in the design of novel steroidal and non-steroidal ligands for NRs (e.g. AR, MR and PR). For example, <u>de novo</u> design of NR ligands can be carried out in the context of these homology models using both intuition, manual processing of compounds, or various <u>de novo</u> drug design programs such as LUDITM (Accelrys Inc., San Diego, California United States of America) and LEAPFROGTM (Tripos Inc., St. Louis, Missouri, United States of America).

[0255] The models can be used to construct quantitative structure-activity relationship (QSAR) models solely through the homology models or through the combination of the models, calculated molecular descriptors, or calculated properties of the homology models such as those derived from molecular mechanics (MM) calculations.

[0256] Thus, the homology models of the present invention can be employed in various capacities to explain the SAR of various binders of these proteins, <u>de novo</u> design of high affinity ligands, predict the binding affinities or functional activity based on a QSAR model, or electronically high-throughput screen small to large collections of compounds.

IX.C.2. Method of Forming a Homology Model of an NR

[0257] In one aspect of the present invention a method of forming a homology model of an NR is disclosed. In a preferred embodiment, the method comprises: (a) providing a template amino acid sequence comprising a GR complex comprising a large pocket volume as disclosed herein; (b) providing a target NR amino acid sequence; (c) aligning the target sequence and the template sequence to form a homology model. Preferably, the template amino acid comprises the LBD of $GR\alpha$ in complex with a co-activator peptide and fluticasone propionate.

[0258] This preferred method is best illustrated by way of specific example, namely the construction of an AR ho-

mology model. Those of ordinary skill in the art will appreciate that although the method is presented in the context of generating an AR homology model, the method can be employed *mutatis mutandis* to generate homology models for any NR.

[0259] In the formulation of an AR homology model based on the GR/FP/TIF2 structure of the present invention, sequence alignments of the AR and GR LBDs can be initially obtained using the alignment algorithm implemented in MVP (Lambert, (1997) in Practical Application of Computer-Aided Drug Design (Charifson, ed.), Marcel Dekker, New York, New York, United States of America, pp 243-303). Target NRs that can be characterized in terms of atomic coordinates are especially preferred, due to the relative ease of manipulation. In this specific example of the preferred method, the GR LBD, which is more preferably derived from the GR/FP/TIF2 structure disclosed herein, is the template amino acid sequence. The AR amino acid sequence is the target NR amino acid sequence in this example.

[0260] After three-dimensional alignment and coordinate translation of the GR/FP crystal structure into a standard orientation using MVP, a desired subunit can be selected for use in the homology model. For example, the second subunit of the GR/FP/TIF2 structure can be selected when constructing an AR homology model. Throughout the process of building a homology model, the Homology package in the INSIGHTII program (Accelrys Inc., San Diego, California, United States of America) or a similar computer software package can be used to visualize the proteins, extract the LBD sequences, manually align the sequences, transform the amino acid residues, manually manipulate the amino acid sidechain conformers, and export the three-dimensional coordinates in appropriate file formats.

[0261] A desired subunit (e.g. the second subunit of the GR/FP/TIF2 structure) can be loaded into the display area of INSIGHTII along with the target NR structure (e.g. the AR/DHT structure) for comparison purposes. Following any desired comparison, the Homology package can be used to extract the template and target (e.g. the GR and AR, respectively) primary amino acid sequences. The sequences are preferably extracted from crystal structure coordinate files, although a target NR amino acid sequence can also be manually built and manipulated. If desired, the sequences can then be manually aligned using Homology and by comparison with those alignments obtained using the MVP program.

[0262] Next, a transformation of the amino acid residues can be performed. A desired transformation can be carried out and initial three-dimensional coordinates of the NR homology model can be assigned using the AssignCoods method in the Homology modeling package or another suitable software package. When assigning coordinates to an NR in a homology model, corresponding residues in a template sequence can be employed. For example, when assigning the coordinates of residues I672-K883 in the AR homology model, the corresponding coordinates of residues T531-D742 in the GR/FP crystal structure were used. Additionally, when assigning the coordinates of residues K744-H775 in the GR/FP/TIF2 crystal structure were used. Finally, when assigning the coordinates of residues S884-H885 in the AR homology model, the corresponding coordinates from the AR/DHT crystal structure were used.

[0263] Following transformation and assignment of coordinates in an NR homology model, it might be desirable to manually manipulate the homology model. Desired manual modifications of amino acid side chain conformers can be carried out after comparing the conformations of corresponding residues in the initial homology model and the crystal structure of the target sequence.

[0264] Table 4 presents the three-dimensional coordinates of AR in complex with bicalutamide obtained from homology modeling of the crystal structure coordinates of GR α in complex with FP, as derived from the disclosed method. Table 5 presents the three-dimensional coordinates of PR in Complex with RWJ-60130 obtained from homology modeling of the crystal structure coordinates of GR α in complex with FP.

IX.C.3. Method of Modeling the Interaction Between an NR and a Ligand

[0265] In another aspect of the present invention, a method of modeling an interaction between an NR and a non-steroid ligand is provided. In a preferred embodiment, the method comprises: (a) providing a homology model of a target NR generated using a GR complex that comprises an expanded binding pocket as disclosed herein; (b) providing coordinates of a non-steroid ligand; (c) docking the non-steroid ligand with homology model to form a NR/ligand model; and (d) optimizing the geometry of the NR/ligand model, whereby an interaction between an NR and a non-steroid ligand is modeled.

[0266] As noted, a GR complex that comprises an expanded binding pocket as disclosed herein can be employed to model an interaction between an NR and a ligand. In the following section, a preferred method of modeling an interaction between an NR and a ligand is presented by way of specific example, namely modeling an interaction between PR and the ligand RWJ-60130. Those of ordinary skill in the art will appreciate that although the method is presented in the context of modeling an interaction between a PR and RWJ-60130, the method can be employed mutatis mutandis to model an interaction between any NR and a ligand.

[0267] First, a homology model can be constructed. Construction of such a model can be achieved by employing the method disclosed in detail in section IX.C.2. hereinabove. Although the precise steps of forming a homology model

for a PR using the GR/FP/TIF2 structure that forms an aspect of the present invention are not presented here, preferred steps mirror, *mutatis mutandis*, those presented hereinabove in the formation of an AR homology model. The follow discussion assumes the preparation of a PR homology model.

[0268] Continuing with the preferred method, initial coordinates for a non-steroid ligand are provided. Coordinates for a non-steroid ligand can be generated using any suitable software package; the software package CONCORD v4.0.4 (Tripos Inc., St. Louis, Missouri, United States of America) is especially preferred. In the present specific example, initial coordinates of the PR ligand RWJ-60130 are generated using CONCORD v4.0.4.

[0269] Next, any desired ligand conformers are generated. These ligand conformers can be generated using software adapted for that purpose. Preferred software includes the GROW algorithm available in MVP and optimized using the CVFF module, as implemented in MVP. In the context of the present PR example, a number of conformers of the initial RWJ-60130 geometry are generated.

[0270] Subsequently, the ligand conformers are docked into the homology model. This operation can be performed using, for example, the DOCK module of INSIGHTII. Each generated conformer can be automatically or manually docked into the homology model and evaluated for goodness of fit. The evaluation can comprise a computational analysis of the ligand-NR structure or it can be a simple visual inspection of the structure. The best fitting conformer is taken as representative of the conformation the ligand takes when it binds the NR. Continuing with the PR/RWJ-60130 complex example, each of the resulting conformers are hand-docked into the initial PR homology model and the best-fitting conformer is selected as the proposed binding conformation of RWJ-60130.

[0271] After docking of the best-fitting conformer into the NR, the complex is modified as desired, for example to correct residue numbering. MVP can be employed to perform any desired modifications. With reference to the example of the PR/RWJ-60130 complex, the complex is exported from INSIGHTII in the identical coordinate reference frame as the GR/FP/TIF2 crystal structure. MVP and the sequence alignments of GR and PR are employed to correct the residue numbering of the initial PR model.

[0272] Finally, optimization of the geometry of the NR/ligand model is performed. Again, suitable software can be employed to perform the optimization. Although any software can be employed, the CVFF software package of MVP is preferred for carrying out the optimization operation. Desirable settings and conditions for the optimization will be known to those of ordinary skill in the art upon consideration of the present disclosure. By way of specific example, geometry optimization of the PR/RWJ-60130 homology model complex is carried out using CVFF as implemented in MVP, as noted above. All atoms in the complex are fixed in space except for those atoms contained in RWJ-60130 and the initial PR model that were within a desired distance constraint, for example within 6 angstroms of any atom in RWJ-60130. The CVFF energy terms are calculated using only those atoms within desired distance constraint of the ligand, for example within 16 angstroms of (and including) RWJ-60130. Geometry optimization of the protein-ligand complex is preferably carried out using the conjugate gradient method as implemented in MVP and with a convergence criteria of a 0.1 change in the gradient.

[0273] Table 6 presents a subset of the three-dimensional coordinates of GR in complex with the Benzoxazin-1-one obtained from modeling of the crystal structure of GR α in complex with FP. Table 7 presents a subset of the three-dimensional coordinates of GR α in complex with A-222977 obtained from modeling of the crystal structure of GR α in complex with FP.

40 IX.C.4. Method of Designing a Non-steroid Modulator of an NR Using a Homology Model

[0274] In yet another embodiment of the present invention, a method of designing a non-steroid modulator of an NR using a homology model is disclosed. In a preferred embodiment, the method comprises: (a) modeling an interaction between an NR and a non-steroid ligand using the structure of a GR complex comprising a large pocket volume; (b) evaluating the interaction between the NR and the non-steroid ligand to determine a first binding efficiency; (c) modifying the structure of the non-steroid ligand to form a modified ligand; (d) modeling an interaction between the modified ligand and the NR; (e) evaluating the interaction between the NR and the modified ligand to determine a second binding efficiency; and (f) repeating steps (c)-(e) a desired number of times if the second binding efficiency is less than the first binding efficiency. The disclosed method can be applied to any NR.

[0275] In one embodiment, an interaction between an NR and a non-steroid ligand is modeled using the structure of a GRα LBD in complex with TIF2 and fluticasone propionate, an aspect of the present invention. Such an interaction can be modeled using the steps disclosed hereinabove in section IX.C.3.

[0276] Next, the interaction between the NR and the non-steroid ligand is evaluated in order to determine a first binding efficiency. The evaluation can be quantitative or qualitative. When a quantitative comparison is desired, software programs can be employed to calculate various binding parameters, which can be subsequently analyzed to arrive at one or more parameters that described aspects of binding efficiency.

[0277] Following an assessment of a first binding efficiency, the structure of the non-steroid ligand is modified to form a modified ligand. Such modification can include altering one or more properties of the ligand predicted to enhance

binding efficiency of the ligand to the NR. The modification(s) is preferably performed using a suitable software package. Modules of software packages INSIGHTII and/or MVP can be employed to accomplish any desired modification(s). The modification(s) can take any of a variety of forms, for example functional groups can be replaced and bond angles can be altered.

5 [0278] Then, an interaction between the modified ligand and the NR can be modeled. Again, the interaction can be modeled using the steps disclosed hereinabove and in section IX.C.3.

[0279] Finally, the interaction between the NR and the modified ligand is evaluated to determine a second binding efficiency. As described above, software programs can be employed to calculate various binding parameters and binding parameters. A quantitative assessment of a second binding efficiency is preferred.

[0280] Lastly, the above steps are repeated a desired number of times if the second binding efficiency is less than the first binding efficiency. By performing multiple iterations of the above method, a non-steroid ligand can be designed using a GR complex comprising a large pocket volume in accordance with the present invention.

IX.D. Method of Screening for Chemical and Biological Modulators of the Biological Activity of an NR

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[0281] A candidate substance identified according to a screening assay of the present invention has an ability to modulate the biological activity of an NR or an NR LBD polypeptide. In a preferred embodiment, such a candidate compound can have utility in the treatment of disorders and/or conditions and/or biological events associated with the biological activity of an NR or an NR LBD polypeptide, including transcription modulation.

[0282] In a cell-free system, the method preferably comprises the steps of establishing a control system comprising a GR α polypeptide and a ligand which is capable of binding to the polypeptide; establishing a test system comprising a GR α polypeptide, the ligand, and a candidate compound; and determining whether the candidate compound modulates the activity of the polypeptide by comparison of the test and control systems. A representative ligand can comprise fluticasone propionate or other small molecule, and in this embodiment, the biological activity or property screened can include binding affinity or transcription regulation. The GR α polypeptide can be in soluble or crystalline form.

[0283] In another embodiment of the invention, a soluble or a crystalline form of a GR α polypeptide or a catalytic or immunogenic fragment or oligopeptide thereof, can be used for screening libraries of compounds in any of a variety of drug screening techniques. The fragment employed in such a screening can be affixed to a solid support. The formation of binding complexes, between a soluble or a crystalline GR α polypeptide and the agent being tested, will be detected. In a preferred embodiment, the soluble or crystalline GR α polypeptide has an amino acid sequence of any of SEQ ID NOs: 2 and 4. When a GR α LBD polypeptide is employed, a preferred embodiment includes a soluble or a crystalline GR α polypeptide having the amino acid sequence of any of SEQ ID NOs: 6 and 8.

[0284] Another technique for drug screening which can be used provides for high throughput screening of compounds having suitable binding affinity to the protein of interest as described in published PCT application WO 84/03564, herein incorporated by reference. In this method, as applied to a soluble or crystalline polypeptide of the present invention, large numbers of different small test compounds are synthesized on a solid substrate, such as plastic pins or some other surface. The test compounds are reacted with the soluble or crystalline polypeptide, or fragments thereof. Bound polypeptide is then detected by methods known to those of skill in the art. The soluble or crystalline polypeptide can also be placed directly onto plates for use in the aforementioned drug screening techniques.

[0285] In yet another embodiment, a method of screening for a modulator of an NR or an NR LBD polypeptide comprises: providing a library of test samples; contacting a soluble or a crystalline form of an NR or a soluble or crystalline form of an NR LBD polypeptide with each test sample; detecting an interaction between a test sample and a soluble or a crystalline form of an NR or a soluble or a crystalline form of an NR LBD polypeptide; identifying a test sample that interacts with a soluble or a crystalline form of an NR DD polypeptide; and isolating a test sample that interacts with a soluble or a crystalline form of an NR or a soluble or a crystalline form of an NR DD polypeptide.

[0286] In each of the foregoing embodiments, an interaction can be detected spectrophotometrically, radiologically, colorimetrically or immunologically. An interaction between a soluble or a crystalline form of an NR or a soluble or a crystalline form of an NR LBD polypeptide and a test sample can also be quantified using methodology known to those of skill in the art.

[0287] In accordance with the present invention there is also provided a rapid and high throughput screening method that relies on the methods described above. This screening method comprises separately contacting each of a plurality of substantially identical samples with a soluble or a crystalline form of an NR or a soluble or a crystalline form of an NR LBD and detecting a resulting binding complex. In such a screening method the plurality of samples preferably comprises more than about 10⁴ samples, or more preferably comprises more than about 5 x 10⁴ samples.

[0288] In another embodiment, a method for identifying a substance that modulates GR LBD function is also provided. In a preferred embodiment, the method comprises: (a) isolating a GR polypeptide of the present invention; (b) exposing the isolated GR polypeptide to a plurality of substances; (c) assaying binding of a substance to the isolated GR polypep-

tide; and (d) selecting a substance that demonstrates specific binding to the isolated GR LBD polypeptide. By the term "exposing the GR polypeptide to a plurality of substances", it is meant both in pools and as mutiple samples of "discrete" pure substances.

⁵ IX.E. Method of Identifying Compounds Which Inhibit Ligand Binding

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[0289] In one aspect of the present invention, an assay method for identifying a compound that inhibits binding of a ligand to an NR polypeptide is disclosed. A ligand, such as fluticasone propionate (which associates with at least GR), can be employed in the assay method as the ligand against which the inhibition by a test compound is gauged. In the following discussion of Section IX.E., it will be understood that although GR is used as an example, the method is equally applicable to any of NR polypeptide. The method comprises (a) incubating a GR polypeptide with a ligand in the presence of a test inhibitor compound; (b) determining an amount of ligand that is bound to the GR polypeptide, wherein decreased binding of ligand to the GR polypeptide in the presence of the test inhibitor compound relative to binding in the absence of the test inhibitor compound is indicative of inhibition; and (c) identifying the test compound as an inhibitor of ligand binding if decreased ligand binding is observed. Preferably, the ligand is fluticasone propionate.

[0290] In another aspect of the present invention, the disclosed assay method can be used in the structural refinement of candidate GR inhibitors. For example, multiple rounds of optimization can be followed by gradual structural changes in a strategy of inhibitor design. A strategy such as this is facilitated by the disclosure of the atomic coordinates of a GR complex in accordance with the present invention.

X. Design, Preparation and Structural Analysis of Additional NR Polypeptides and NR LBD Mutants and Structural Equivalents

[0291] The present invention provides for the generation of NR polypeptides and NR (preferably $GR\alpha$ and $GR\alpha$ LBD mutants), and the ability to solve the crystal structures of those that crystallize. Thus, an aspect of the present invention involves the use of both targeted and random mutagenesis of the GR gene for the production of a recombinant protein with improved or desired characteristics for the purpose of crystallization, characterization of biologically relevant protein-protein interactions, and compound screening assays, or for the production of a recombinant protein having another desirable characteristic(s). Polypeptide products produced by the methods of the present invention are also disclosed herein.

[0292] The structure coordinates of a NR LBD provided in accordance with the present invention also facilitate the identification of related proteins or enzymes analogous to $GR\alpha$ in function, structure or both, (for example, a $GR\beta$) which can lead to novel therapeutic modes for treating or preventing a range of disease states. More particularly, through the provision of the mutagenesis approaches as well as the three-dimensional structure of a $GR\alpha$ LBD disclosed herein, desirable sites for mutation are identified.

X.A. Design and Preparation of Sterically Similar Compounds

[0293] A further aspect of the present invention is that sterically similar compounds can be formulated to mimic the key portions of an NR LBD structure. Such compounds are functional equivalents. The generation of a structural functional equivalent can be achieved by the techniques of modeling and chemical design known to those of skill in the art and described herein. Modeling and chemical design of NR and NR LBD structural equivalents can be based on the structure coordinates of a crystalline $GR\alpha$ LBD polypeptide of the present invention. It will be understood that all such sterically similar constructs fall within the scope of the present invention.

X.B. Design and Preparation of NR Polypeptides

[0294] The generation of chimeric GR polypeptides is also an aspect of the present invention. Such a chimeric polypeptide can comprise an NR LBD polypeptide or a portion of an NR LBD, (e.g. a GRα LBD) that is fused to a candidate polypeptide or a suitable region of the candidate polypeptide, for example GRβ. Throughout the present disclosure it is intended that the term "mutant" encompass not only mutants of an NR LBD polypeptide but chimeric proteins generated using an NR LBD as well. It is thus intended that the following discussion of mutant NR LBDs apply mutatis mutandis to chimeric NR polypeptides and NR LBD polypeptides and to structural equivalents thereof.

[0295] In accordance with the present invention, a mutation can be directed to a particular site or combination of sites of a wild-type NR LBD. For example, an accessory binding site or the binding pocket can be chosen for mutagenesis. Similarly, a residue having a location on, at or near the surface of the polypeptide can be replaced, resulting in an altered surface charge of one or more charge units, as compared to the wild-type NR and NR LBDs. Alternatively, an amino acid residue in an NR or an NR LBD can be chosen for replacement based on its hydrophilic or hydrophobic

characteristics.

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[0296] Such mutants can be characterized by any one of several different properties, i.e. a "desired" or "predetermined" characteristic as compared with the wild type NR LBD. For example, such mutants can have an altered surface charge of one or more charge units, or can have an increase in overall stability. Other mutants can have altered substrate specificity in comparison with, or a higher specific activity than, a wild-type NR or an NR LBD.

[0297] NR and NR LBD mutants of the present invention can be generated in a number of ways. For example, the wild-type sequence of an NR or an NR LBD can be mutated at those sites identified using this invention as desirable for mutation, by means of oligonucleotide-directed mutagenesis or other conventional methods, such as deletion. Alternatively, mutants of an NR or an NR LBD can be generated by the site-specific replacement of a particular amino acid with an unnaturally occurring amino acid. In addition, NR or NR LBD mutants can be generated through replacement of an amino acid residue, for example, a particular cysteine or methionine residue, with selenocysteine or selenomethionine. This can be achieved by growing a host organism capable of expressing either the wild-type or mutant polypeptide on a growth medium depleted of either natural cysteine or methionine (or both) but enriched in selenocysteine or selenomethionine (or both).

[0298] As disclosed in the Examples presented below, mutations can be introduced into a DNA sequence coding for a NR or an NR LBD using synthetic oligonucleotides. These oligonucleotides contain nucleotide sequences flanking the desired mutation sites. Mutations can be generated in the full-length DNA sequence of a NR or an NR LBD or in any sequence coding for polypeptide fragments of an NR or an NR LBD.

[0299] According to the present invention, a mutated NR or NR LBD DNA sequence produced by the methods described above, or any alternative methods known in the art, can be expressed using an expression vector. An expression vector, as is well known to those of skill in the art, typically includes elements that permit autonomous replication in a host cell independent of the host genome, and one or more phenotypic markers for selection purposes. Either prior to or after insertion of the DNA sequences surrounding the desired NR or NR LBD mutant coding sequence, an expression vector also will include control sequences encoding a promoter, operator, ribosome binding site, translation initiation signal, and, optionally, a repressor gene or various activator genes and a signal for termination. In some embodiments, where secretion of the produced mutant is desired, nucleotides encoding a "signal sequence" can be inserted prior to an NR or an NR LBD mutant coding sequence. For expression under the direction of the control sequences, a desired DNA sequence must be operatively linked to the control sequences; that is, the sequence must have an appropriate start signal in front of the DNA sequence encoding the NR or NR LBD mutant, and the correct reading frame to permit expression of that sequence under the control of the control sequences and production of the desired product encoded by that NR or NR LBD sequence must be maintained.

[0300] After a review of the disclosure of the present invention presented herein, any of a wide variety of well-known available expression vectors can be useful to express a mutated coding sequence of this invention. These include for example, vectors consisting of segments of chromosomal, non-chromosomal and synthetic DNA sequences, such as various known derivatives of SV40, known bacterial plasmids, e.g., plasmids from *E. coli* including col E1, pCR1, pBR322, pMB9 and their derivatives, wider host range plasmids, e.g., RP4, phage DNAs, e.g., the numerous derivatives of phage λ, e.g., NM 989, and other DNA phages, e.g., M13 and filamentous single stranded DNA phages, yeast plasmids and vectors derived from combinations of plasmids and phage DNAs, such as plasmids which have been modified to employ phage DNA or other expression control sequences. In the preferred embodiments of this invention, vectors amenable to expression in a pET-based expression system are employed. The pET expression system is available from Novagen/Invitrogen, Inc. of Carlsbad, California. Expression and screening of a polypeptide of the present invention in bacteria, preferably *E. coli*, is a preferred aspect of the present invention.

[0301] In addition, any of a wide variety of expression control sequences--sequences that control the expression of a DNA sequence when operatively linked to it--can be used in these vectors to express the mutated DNA sequences according to this invention. Such useful expression control sequences, include, for example, the early and late promoters of SV40 for animal cells, the lac system, the trp system the TAC or TRC system, the major operator and promoter regions of phage λ , the control regions of fd coat protein, all for *E. coli*, the promoter for 3-phosphoglycerate kinase or other glycolytic enzymes, the promoters of acid phosphatase, e.g., Pho5, the promoters of the yeast α -mating factors for yeast, and other sequences known to control the expression of genes of prokaryotic or eukaryotic cells or their viruses, and various combinations thereof.

[0302] A wide variety of hosts are also useful for producing mutated NR, SR or GR and NR, SR or GR LBD polypeptides according to this invention. These hosts include, for example, bacteria, such as *E. coli. Bacillus* and *Streptomyces*, fungi, such as yeasts, and animal cells, such as CHO and COS-1 cells, plant cells, insect cells, such as SF9 cells, and transgenic host cells. Expression and screening of a polypeptide of the present invention in bacteria, preferably *E. coli*, is a preferred aspect of the present invention.

[0303] It should be understood that not all expression vectors and expression systems function in the same way to express mutated DNA sequences of this invention, and to produce modified NR, SR or GR and NR, SR or GR LBD polypeptides or NR, SR or GR or NR, SR or GR LBD mutants. Neither do all hosts function equally well with the same

expression system. One of skill in the art can, however, make a selection among these vectors, expression control sequences and hosts without undue experimentation and without departing from the scope of this invention. For example, an important consideration in selecting a vector will be the ability of the vector to replicate in a given host. The copy number of the vector, the ability to control that copy number, and the expression of any other proteins encoded by the vector, such as antibiotic markers, should also be considered.

[0304] In selecting an expression control sequence, a variety of factors should also be considered. These include, for example, the relative strength of the system, its controllability and its compatibility with the DNA sequence encoding a modified NR or NR LBD polypeptide of this invention, with particular regard to the formation of potential secondary and tertiary structures.

[0305] Hosts should be selected by consideration of their compatibility with the chosen vector, the toxicity of a modified polypeptide to them, their ability to express mature products, their ability to fold proteins correctly, their fermentation requirements, the ease of purification of a modified GR or GR LBD and safety. Within these parameters, one of skill in the art can select various vector/expression control system/host combinations that will produce useful amounts of a mutant polypeptide. A mutant polypeptide produced in these systems can be purified, for example, via the approaches disclosed in the Laboratory Examples.

[0306] Once a mutation(s) has been generated in the desired location, such as an active site or dimerization site, the mutants can be tested for any one of several properties of interest, i.e. "desired" or "predetermined" positions. For example, mutants can be screened for an altered charge at physiological pH. This property can be determined by measuring the mutant polypeptide isoelectric point (pl) and comparing the observed value with that of the wild-type parent. Isoelectric point can be measured by gel-electrophoresis according to the method of Wellner (Wellner, (1971) Anal. Chem. 43:597). A mutant polypeptide containing a replacement amino acid located at the surface of the enzyme, as provided by the structural information of this invention, can lead to an altered surface charge and an altered pl.

X.C. Generation of an NR or NR LBD Mutants

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[0307] In another aspect of the present invention, a unique NR or NR LBD polypeptide is generated. Such a mutant can facilitate purification and the study of the structure and the ligand-binding abilities of a NR polypeptide. Thus, an aspect of the present invention involves the use of both targeted and random mutagenesis of the GR gene for the production of a recombinant protein with improved solution characteristics for the purpose of crystallization, characterization of biologically relevant protein-protein interactions, and compound screening assays, or for the production of a recombinant polypeptide having other characteristics of interest. Expression of the polypeptide in bacteria, preferably *E. coli*, is also an aspect of the present invention.

[0308] In one embodiment, targeted mutagenesis was performed using a sequence alignment of several nuclear receptors, primarily steroid receptors. Several residues that were hydrophobic in GR and hydrophilic in other receptors were chosen for mutagenesis. Most of these residues were predicted to be solvent exposed hydrophobic residues in GR. Therefore, mutations were made to change these hydrophobic residues to hydrophilic in attempt to improve the solubility and stability of *E.coli*-expressed GR LBD.

[0309] Random mutagenesis can be performed on residues where a significant difference, hydrophobic versus hydrophobic, is observed between GR and other steroid receptors based on sequence alignment. Such positions can be randomized by oligo-directed or cassette mutagenesis. A GR LBD protein library can be sorted by an appropriate display system to select mutants with improved solution properties. Residues in GR that meet the criteria for such an approach include: V538, V552, W557, F602, L636, Y648, Y660, L685, M691, V702, W712, L733, and Y764. In addition, residues predicted to neighbor these positions can also be randomized.

[0310] A method of modifying a test NR polypeptide is thus disclosed. The method can comprise: providing a test NR polypeptide sequence having a characteristic that is targeted for modification; aligning the test NR polypeptide sequence with at least one reference NR polypeptide sequence for which an X-ray structure is available, wherein the at least one reference NR polypeptide sequence has a characteristic that is desired for the test NR polypeptide; building at three-dimensional model for the test NR polypeptide using the three-dimensional coordinates of the X-ray structure a three-dimensional model for the test NR polypeptide using the three-dimensional coordinates of the X-ray structure (s) of the at least one reference polypeptide and its sequence alignment with the test NR polypeptide sequence; examining the three-dimensional model of the test NR polypeptide for differences with the at least one reference polypeptide that are associated with the desired characteristic; and mutating at least one amino acid residue in the test NR polypeptide sequence located at a difference identified above to a residue associated with the desired characteristic, whereby the test NR polypeptide is modified. By the term "associated with a desired characteristic" it is meant that a residue is found in the reference polypeptide at a point of difference wherein the difference provides a desired characteristic or phenotype in the reference polypeptide.

[0311] A method of altering the solubility of a test NR polypeptide is also disclosed in accordance with the present invention. In a preferred embodiment, the method comprises: (a) providing a reference NR polypeptide sequence and the test NR polypeptide sequence; (b) comparing the reference NR polypeptide sequence and the test NR polypeptide

sequence to identify one or more residues in the test NR sequence that are more or less hydrophilic than a corresponding residue in the reference NR polypeptide sequence; and (c) mutating the residue in the test NR polypeptide sequence identified in step (b) to a residue having a different hydrophilicity, whereby the solubility of the test NR polypeptide is altered.

[0312] By the term "altering" it is meant any change in the solubility of the test NR polypeptide, including preferably a change to make the polypeptide more soluble. Such approaches to obtain soluble proteins for crystallization studies have been successfully demonstrated in the case of HIV integration intergrase and the human leptin cytokine. See Dyda et al., (1994) Science 266:1981-86; and Zhang et al., (1997) Nature 387:206-209.

[0313] Typically, such a change involves substituting a residue that is more hydrophilic than the wild type residue. Hydrophobicity and hydrophilicity criteria and comparision information are set forth herein below. Optionally, the reference NR polypeptide sequence is an AR or a PR sequence, and the test polypeptide sequence is a GR polypeptide sequence. Alternatively, the reference polypeptide sequence is a crystalline GR LBD. The comparing of step (b) is preferably by sequence alignment. More preferably, the screening is carried out in bacteria, even more preferably, in E. coli.

[0314] A method for modifying a test NR polypeptide to alter and preferably improve the solubility, stability in solution and other solution behavior, to alter and preferably improve the folding and stability of the folded structure, and to alter and preferably improve the ability to form ordered crystals is also provided in accordance with the present invention. The aforementioned characteristics are representative "desired" or "predetermined characteristics or phenotypes.

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[0315] In a preferred embodiment, the method comprises: (a) providing a test NR polypeptide sequence for which the solubility, stability in solution, other solution behavior, tendency to fold properly, ability to form ordered crystals, or combination thereof is different from that desired; (b) aligning the test NR polypeptide sequence with the sequences of other reference NR polypeptides for which the X-ray structure is available and for which the solution properties, folding behavior and crystallization properties are closer to those desired; (c) building a three-dimensional model for the test NR polypeptide using the three-dimensional coordinates of the X-ray structure(s) of one or more of the reference polypeptides and their sequence alignment with the test NR polypetide sequence; (d) optionally, optimizing the sidechain conformations in the three-dimensional model by generating many alternative side-chain conformations, refining by energy minimization, and selecting side-chain conformations with lower energy; (e) examining the three-dimensional model for the test NR graphically for lipophilic side-chains that are exposed to solvent, for clusters of two or more lipophilic side-chains exposed to solvent, for lipophilic pockets and clefts on the surface of the protein model, and in particular for sites on the surface of the protein model that are more lipophilic than the corresponding sites on the structure(s) of the reference NR polypeptide(s); (f) for each residue identified in step (e), mutating the amino acid to an amino acid with different hydrophilicity, and usually to a more hydrophilic amino acid, whereby the exposed lipophilic sites are reduced, and the solution properties improved; (g) examining the three-dimensional model graphically at each site where the amino acid in the test NR polypeptide is different from the amino acid at the corresponding position in the reference NR polypeptide, and checking whether the amino acid in the test NR polypeptide makes favorable interactions with the atoms that lie around it in the three-dimensional model, considering the side-chain conformations predicted in steps (c) and, optionally step (d), as well as likely alternative conformations of the side-chains, and also considering the possible presence of water molecules (for this analysis, an amino acid is considered to make "favorable interactions with the atoms that lie around it" if these interactions are more favorable than the interactions that would be obtained if it was replaced by any of the 19 other naturally-occurring amino acids); (h) for each residue identified in step (g) as not making favorable interactions with the atoms that lie around it, mutating the residue to another amino acid that could make better interactions with the atoms that lie around it, thereby promoting the tendency for the test NR polypeptide to fold into a stable structure with improved solution properties, less tendency to unfold, and greater tendency to form ordered crystals; (i) examining the three-dimensional model graphically at each residue position where the amino acid in the test NR polypeptide is different from the amino acid at the corresponding position in the reference NR polypeptide, and checking whether the steric packing, hydrogen bonding and other energetic interactions could be improved by mutating that residue or any one or more of the surrounding residues lying within 8 angstroms in the three-dimensional model; (j) for each residue position identified in step (i) as potentially allowing an improvement in the packing, hydrogen bonding and energetic interactions, mutating those residues individually or in combination to residues that could improve the packing, hydrogen bonding and energetic interactions, thereby promoting the tendency for the test NR polypeptide to fold into a stable structure with improved solution properties, less tendency to unfold, and greater tendency to form ordered crystals.

[0316] By the term "graphically" it is meant through the use of computer aided graphics, such by the use of a software package disclosed herein above. Optionally, in this embodiment, the reference NR polypeptide is AR, or PR, when the test NR polypeptide is GR α . Alternatively, the reference NR polypeptide is GR α , and the test NR polypeptide is preferably GR β , AR, PR or MR.

[0317] An isolated GR polypeptide comprising a mutation in a ligand binding domain, wherein the mutation alters the solubility of the ligand binding domain, is also disclosed. An isolated GR polypeptide, or functional portion thereof,

having one or more mutations comprising a substitution of a hydrophobic amino acid residue by a hydrophilic amino acid residue in a ligand binding domain is also disclosed. Preferably, in each case, the mutation can be at a residue selected from the group consisting of V552, W557, F602, L636, Y648, W712, L741, L535, V538, C638, M691, V702, Y648, Y660, L685, M691, V702, W712, L733, Y764 and combinations thereof. More preferably, the mutation is selected from the group consisting of V552K, W557S, F602S, F602D, F602E, F602Y, F602T, F602N, F602C, L636E, Y648Q, W712S, L741R, L535T, V538S, C638S, M691T, V702T, W712T and combinations thereof. Even more preferably, the mutation is made by targeted point or randomizing mutagenesis. Hydrophobicity and hydrophilicity criteria and comparision information are set forth herein below.

[0318] As discussed above, the GRα gene can be translated from its mRNA by alternative initiation from an internal ATG codon (Yudt & Cidlowski, (2001) Molec. Endocrinol. 15: 1093-1103). This codon codes for methionine at position 27 and translation from this position produces a slightly smaller protein. These two isoforms, translated from the same gene, are referred to as GR-A and GR-B. It has been shown in a cellular system that the shorter GR-B form is more effective in initiating transcription from a GRE compared to GR-A. Additionally, another form of GR, called GRβ is produced by an alternative splicing event. The GRβ protein differs from GRα at the very C-terminus, where the final 50 amino acids are replaced with a 15 amino acid segment. These two isoforms are 100% identical up to amino acid 727. No sequence similarity exists between GRα and GRβ at the C-terminus beyond position 727. GRβ has been shown to be a dominant negative regulator of GRα-mediated gene transcription (Oakley, et al., (1996) J. Biol. Chem. 271: 9550-9559). It has been suggested that some of the tissue specific effects observed with glucocorticoid treatment may in part be due to the presence of varying amounts of isoform in certain cell-types. This method is also applicable to any other subfamily so organized. Thus, while the amino acid residue numbers referenced above pertain to GR-A, the polypeptides of the present invention also have a mutation at an analogous position in any polypeptide based on a sequence alignment (such as prepared by BLAST or other approach disclosed herein or known in the art) to GRα, which are not forth herein for convenience.

[0319] As used in the following discussion, the terms "engineered NR", "engineered NR LDB", "NR mutant", and "NR LBD mutant" refers to polypeptides having amino acid sequences that contain at least one mutation in the wild-type sequence, including at an analogous position in any polypeptide based on a sequence alignment to GRα. The terms also refer to NR and NR LBD polypeptides which are capable of exerting a biological effect in that they comprise all or a part of the amino acid sequence of an engineered mutant polypeptide of the present invention, or cross-react with antibodies raised against an engineered mutant polypeptide, or retain all or some or an enhanced degree of the biological activity of the engineered mutant amino acid sequence or protein. Such biological activity can include the binding of small molecules in general, the binding of glucocorticoids in particular and even more particularly the binding of dexamethasone.

[0320] The terms "engineered NR LBD" and "NR LBD mutant" also includes analogs of an engineered NR polypeptide or NR LBD mutant polypeptide. By "analog" is intended that a DNA or polypeptide sequence can contain alterations relative to the sequences disclosed herein, yet retain all or some or an enhanced degree of the biological activity of those sequences. Analogs can be derived from genomic nucleotide sequences or from other organisms, or can be created synthetically. Those of skill in the art will appreciate that other analogs, as yet undisclosed or undiscovered, can be used to design and/or construct mutant analogs. There is no need for an engineered mutant polypeptide to comprise all or substantially all of the amino acid sequence of the wild type polypeptide (e.g. SEQ ID NOs: 2, 4, 6 and 8). Shorter or longer sequences are anticipated to be of use in the invention; shorter sequences are herein referred to as "segments". Thus, the terms "engineered NR LBD" and "NR LBD mutant" also includes fusion, chimeric or recombinant engineered NR LBD or NR LBD mutant polypeptides and proteins comprising sequences of the present invention. Methods of preparing such proteins are disclosed herein above.

X.D. Sequence Similarity and Identity

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[0321] As used herein, the term "substantially similar" as applied to GR means that a particular sequence varies from nucleic acid sequence of any of SEQ ID NOs: 1, 3, 5, or 7, or the amino acid sequence of any of SEQ ID NOs: 2, 4, 6 or 8 by one or more deletions, substitutions, or additions, the net effect of which is to retain at least some of biological activity of the natural gene, gene product, or sequence. Such sequences include "mutant" or "polymorphic" sequences, or sequences in which the biological activity and/or the physical properties are altered to some degree but retains at least some or an enhanced degree of the original biological activity and/or physical properties. In determining nucleic acid sequences, all subject nucleic acid sequences capable of encoding substantially similar amino acid sequences are considered to be substantially similar to a reference nucleic acid sequence, regardless of differences in codon sequences or substitution of equivalent amino acids to create biologically functional equivalents.

X.D.1. Sequences That are Substantially Identical to an Engineered NR or NR LBD Mutant Sequence of the Present Invention

[0322] Nucleic acids that are substantially identical to a nucleic acid sequence of an engineered NR or NR LBD mutant of the present invention, e.g. allelic variants, genetically altered versions of the gene, etc., bind to an engineered NR or NR LBD mutant sequence under stringent hybridization conditions. By using probes, particularly labeled probes of DNA sequences, one can isolate homologous or related genes. The source of homologous genes can be any species, e.g. primate species; rodents, such as rats and mice, canines, felines, bovines, equines, yeast, nematodes, etc.

[0323] Between mammalian species, e.g. human and mouse, homologs have substantial sequence similarity, i.e. at least 75% sequence identity between nucleotide sequences. Sequence similarity is calculated based on a reference sequence, which can be a subset of a larger sequence, such as a conserved motif, coding region, flanking region, etc. A reference sequence will usually be at least about 18 nt long, more usually at least about 30 nt long, and can extend to the complete sequence that is being compared. Algorithms for sequence analysis are known in the art, such as BLAST, described in Altschul et al., (1990) J. Mol. Biol. 215:403-10. Software for performing BLAST analyses is publicly available through the National Center for Biotechnology Information (http://www.ncbi.nlm.nih.gov/).

[0324] This algorithm involves first identifying high scoring sequence pairs (HSPs) by identifying short words of length W in the query sequence, which either match or satisfy some positive-valued threshold score T when aligned with a word of the same length in a database sequence. T is referred to as the neighborhood word score threshold. These initial neighborhood word hits act as seeds for initiating searches to find longer HSPs containing them. The word hits are then extended in both directions along each sequence for as far as the cumulative alignment score can be increased. Cumulative scores are calculated using, for nucleotide sequences, the parameters M (reward score for a pair of matching residues; always > 0) and N (penalty score for mismatching residues; always < 0). For amino acid sequences, a scoring matrix is used to calculate the cumulative score. Extension of the word hits in each direction are halted when the cumulative alignment score falls off by the quantity X from its maximum achieved value, the cumulative score goes to zero or below due to the accumulation of one or more negative-scoring residue alignments, or the end of either sequence is reached. The BLAST algorithm parameters W, T, and X determine the sensitivity and speed of the alignment. The BLASTN program (for nucleotide sequences) uses as defaults a wordlength W=11, an expectation E=10, a cutoff of 100, M=5, N=-4, and a comparison of both strands. For amino acid sequences, the BLASTP program uses as defaults a wordlength (W) of 3, an expectation (E) of 10, and the BLOSUM62 scoring matrix. See Henikoff & Henikoff, (1989) *Proc. Natl. Acad. Sci. U.S.A.* 89:10915.

[0325] In addition to calculating percent sequence identity, the BLAST algorithm also performs a statistical analysis of the similarity between two sequences. See, e.g., Karlin & Altschul, (1993) *Proc. Natl. Acad. Sci. U.S.A.* 90:5873-5887. One measure of similarity provided by the BLAST algorithm is the smallest sum probability (P(N)), which provides an indication of the probability by which a match between two nucleotide or amino acid sequences would occur by chance. For example, a test nucleic acid sequence is considered similar to a reference sequence if the smallest sum probability in a comparison of the test nucleic acid sequence to the reference nucleic acid sequence is less than about 0.1, more preferably less than about 0.01, and most preferably less than about 0.001.

[0326] Percent identity or percent similarity of a DNA or peptide sequence can be determined, for example, by comparing sequence information using the GAP computer program, available from the University of Wisconsin Geneticist Computer Group. The GAP program utilizes the alignment method of Needleman et al., (1970) *J. Mol. Biol.* 48:443, as revised by Smith et al., (1981) *Adv. Appl. Math.* 2:482. Briefly, the GAP program defines similarity as the number of aligned symbols (i.e., nucleotides or amino acids) that are similar, divided by the total number of symbols in the shorter of the two sequences. The preferred parameters for the GAP program are the default parameters, which do not impose a penalty for end gaps. See, e.g., Schwartz et al. (eds.), (1979), Atlas of Protein Sequence and Structure, National Biomedical Research Foundation, pp. 357-358, and Gribskov et al., (1986) *Nucl. Acids. Res.* 14:6745.

[0327] The term "similarity" is contrasted with the term "identity". Similarity is defined as above; "identity", however, means a nucleic acid or amino acid sequence having the same amino acid at the same relative position in a given family member of a gene family. Homology and similarity are generally viewed as broader terms than the term identity. Biochemically similar amino acids, for example leucine/isoleucine or glutamate/aspartate, can be present at the same position--these are not identical per se, but are biochemically "similar." As disclosed herein, these are referred to as conservative differences or conservative substitutions. This differs from a conservative mutation at the DNA level, which changes the nucleotide sequence without making a change in the encoded amino acid, e.g. TCC to TCA, both of which encode serine.

[0328] As used herein, DNA analog sequences are "substantially identical" to specific DNA sequences disclosed herein if: (a) the DNA analog sequence is derived from coding regions of the nucleic acid sequence shown in any one of SEQ ID NOs: 1, 3, 5 or 7 or (b) the DNA analog sequence is capable of hybridization with DNA sequences of (a) under stringent conditions and which encode a biologically active $GR\alpha$ or $GR\alpha$ LBD gene product; or (c) the DNA sequences are degenerate as a result of alternative genetic code to the DNA analog sequences defined in (a) and/or

- (b). Substantially identical analog proteins and nucleic acids will have between about 70% and 80%, preferably between about 81% to about 90% or even more preferably between about 91% and 99% sequence identity with the corresponding sequence of the native protein or nucleic acid. Sequences having lesser degrees of identity but comparable bio-
- [0329] As used herein, "stringent conditions" means conditions of high stringency, for example 6X SSC, 0.2% polyvinylpyrrolidone, 0.2% Ficoll, 0.2% bovine serum albumin, 0.1% sodium dodecyl sulfate, 100 μg/ml salmon sperm DNA and 15% formamide at 68°C. For the purposes of specifying additional conditions of high stringency, preferred conditions are salt concentration of about 200 mM and temperature of about 45°C. One example of such stringent conditions is hybridization at 4X SSC, at 65°C, followed by a washing in 0.1XSSC at 65°C for one hour. Another exemplary
 - stringent hybridization scheme uses 50% formamide, 4X SSC at 42°C. [0330] In contrast, nucleic acids having sequence similarity are detected by hybridization under lower stringency conditions. Thus, sequence identity can be determined by hybridization under lower stringency conditions, for example, at 50°C or higher and 0.1X SSC (9 mM NaCl/0.9 mM sodium citrate) and the sequences will remain bound when
- [0331] As used herein, the term "complementary sequences" means nucleic acid sequences that are base-paired according to the standard Watson-Crick complementarity rules. The present invention also encompasses the use of 15 nucleotide segments that are complementary to the sequences of the present invention.
 - [0332] Hybridization can also be used for assessing complementary sequences and/or isolating complementary nucleotide sequences. As discussed above, nucleic acid hybridization will be affected by such conditions as salt concentration, temperature, or organic solvents, in addition to the base composition, length of the complementary strands, and the number of nucleotide base mismatches between the hybridizing nucleic acids, as will be readily appreciated by those skilled in the art. Stringent temperature conditions will generally include temperatures in excess of about 30°C, typically in excess of about 37°C, and preferably in excess of about 45°C. Stringent salt conditions will ordinarily be less than about 1,000 mM, typically less than about 500 mM, and preferably less than about 200 mM. However, the combination of parameters is much more important than the measure of any single parameter. See, e.g., Wetmur & Davidson, (1968) J. Mol. Biol. 31:349-70. Determining appropriate hybridization conditions to identify and/or isolate sequences containing high levels of homology is well known in the art. See, e.g., Sambrook et al., (1989) Molecular Cloning: A Laboratory Manual, Cold Spring Harbor, New York.
 - X.D.2. Functional Equivalents of an Engineered NR, SR or GR or NR, SR, GR LBD Mutant Nucleic Acid Sequence of
 - [0333] As used herein, the term "functionally equivalent codon" is used to refer to codons that encode the same amino acid, such as the ACG and AGU codons for serine. For example, $GR\alpha$ or $GR\alpha$ LBD-encoding nucleic acid sequences comprising any one of SEQ ID NOs: 1, 3, 5 or 7 that have functionally equivalent codons are covered by the present invention. Thus, when referring to the sequence example presented in SEQ ID NOs: 1, 3, 5 or 7, applicants provide substitution of functionally equivalent codons into the sequence example of in SEQ ID NOs: 1, 3, 5 or 7. Thus, applicants are in possession of amino acid and nucleic acids sequences which include such substitutions but which
 - [0334] It will also be understood by those of skill in the art that amino acid and nucleic acid sequences can include additional residues, such as additional Nor C-terminal amino acids or 5' or 3' nucleic acid sequences, and yet still be essentially as set forth in one of the sequences disclosed herein, so long as the sequence retains biological protein activity where polypeptide expression is concerned. The addition of terminal sequences particularly applies to nucleic acid sequences which can, for example, include various non-coding sequences flanking either of the 5' or 3' portions of the coding region or can include various internal sequences, i.e., introns, which are known to occur within genes.

X.D.3. Biological Equivalents

- [0335] The present invention envisions and includes biological equivalents of a engineered NR or NR LBD mutant polypeptide of the present invention. The term "biological equivalent" refers to proteins having amino acid sequences which are substantially identical to the amino acid sequence of an engineered NR LBD mutant of the present invention and which are capable of exerting a biological effect in that they are capable of binding small molecules or crossreacting with anti-NR or NR LBD mutant antibodies raised against an engineered mutant NR or NR LBD polypeptide
- [0336] For example, certain amino acids can be substituted for other amino acids in a protein structure without appreciable loss of interactive capacity with, for example, structures in the nucleus of a cell. Since it is the interactive capacity and nature of a protein that defines that protein's biological functional activity, certain amino acid sequence substitutions can be made in a protein sequence (or the nucleic acid sequence encoding it) to obtain a protein with the

same, enhanced, or antagonistic properties. Such properties can be achieved by interaction with the normal targets of the protein, but this need not be the case, and the biological activity of the invention is not limited to a particular mechanism of action. It is thus in accordance with the present invention that various changes can be made in the amino acid sequence of an engineered NR or NR LBD mutant polypeptide of the present invention or its underlying nucleic acid sequence without appreciable loss of biological utility or activity.

[0337] Biologically equivalent polypeptides, as used herein, are polypeptides in which certain, but not most or all, of the amino acids can be substituted. Thus, when referring to the sequence examples presented in any of SEQ ID NOs: 1, 3, 5 and 7, applicants envision substitution of codons that encode biologically equivalent amino acids, as described herein, into a sequence example of SEQ ID NOs: 1, 3, 5 and 7, respectively. Thus, applicants are in possession of amino acid and nucleic acids sequences which include such substitutions but which are not set forth herein in their entirety for convenience.

[0338] Alternatively, functionally equivalent proteins or peptides can be created via the application of recombinant DNA technology, in which changes in the protein structure can be engineered, based on considerations of the properties of the amino acids being exchanged, e.g. substitution of lie for Leu. Changes designed by man can be introduced through the application of site-directed mutagenesis techniques, e.g., to introduce improvements to the antigenicity of the protein or to test an engineered mutant polypeptide of the present invention in order to modulate lipid-binding or other activity, at the molecular level.

[0339] Amino acid substitutions, such as those which might be employed in modifying an engineered mutant polypeptide of the present invention are generally, but not necessarily, based on the relative similarity of the amino acid sidechain substituents, for example, their hydrophobicity, hydrophilicity, charge, size, and the like. An analysis of the size, shape and type of the amino acid side-chain substituents reveals that arginine, lysine and histidine are all positively charged residues; that alanine, glycine and serine are all of similar size; and that phenylalanine, tryptophan and tyrosine all have a generally similar shape. Therefore, based upon these considerations, arginine, lysine and histidine; alanine, glycine and serine; and phenylalanine, tryptophan and tyrosine; are defined herein as biologically functional equivalents. Those of skill in the art will appreciate other biologically functionally equivalent changes. It is implicit in the above discussion, however, that one of skill in the art can appreciate that a radical, rather than a conservative substitution is warranted in a given situation. Non-conservative substitutions in engineered mutant LBD polypeptides of the present invention are also an aspect of the present invention.

[0340] In making biologically functional equivalent amino acid substitutions, the hydropathic index of amino acids can be considered. Each amino acid has been assigned a hydropathic index on the basis of their hydrophobicity and charge characteristics, these are: isoleucine (+ 4.5); valine (+ 4.2); leucine (+ 3.8); phenylalanine (+ 2.8); cysteine (+ 2.5); methionine (+ 1.9); alanine (+ 1.8); glycine (-0.4); threonine (-0.7); serine (-0.8); tryptophan (-0.9); tyrosine (-1.3); proline (-1.6); histidine (-3.2); glutamate (-3.5); glutamine (-3.5); aspartate (-3.5); asparagine (-3.5); lysine (-3.9); and arginine (-4.5).

[0341] The importance of the hydropathic amino acid index in conferring interactive biological function on a protein is generally understood in the art (Kyte & Doolittle, (1982), *J. Mol. Biol.* 157:105-132, incorporated herein by reference). It is known that certain amino acids can be substituted for other amino acids having a similar hydropathic index or score and still retain a similar biological activity. In making changes based upon the hydropathic index, the substitution of amino acids whose hydropathic indices are within ±2 of the original value is preferred, those which are within ±1 of the original value are particularly preferred, and those within ±0.5 of the original value are even more particularly preferred.

[0342] It is also understood in the art that the substitution of like amino acids can be made effectively on the basis of hydrophilicity. U.S. Patent No. 4,554,101, incorporated herein by reference, states that the greatest local average hydrophilicity of a protein, as governed by the hydrophilicity of its adjacent amino acids, correlates with its immunogenicity and antigenicity, i.e. with a biological property of the protein. It is understood that an amino acid can be substituted for another having a similar hydrophilicity value and still obtain a biologically equivalent protein.

[0343] As detailed in U.S. Patent No. 4,554,101, the following hydrophilicity values have been assigned to amino acid residues: arginine (\pm 3.0); lysine (\pm 3.0); aspartate (\pm 3.0 \pm 1); glutamate (\pm 3.0 \pm 1); serine (\pm 0.3); asparagine (\pm 0.2); glutamine (\pm 0.2); glycine (0); threonine (\pm 0.4); proline (\pm 0.5 \pm 1); alanine (\pm 0.5); histidine (\pm 0.5); cysteine (\pm 1.0); methionine (\pm 1.3); valine (\pm 1.5); leucine (\pm 1.8); isoleucine (\pm 1.8); tyrosine (\pm 2.3); phenylalanine (\pm 2.5); tryptophan (\pm 3.4). [0344] In making changes based upon similar hydrophilicity values, the substitution of amino acids whose hydrophilicity values are within \pm 2 of the original value is preferred, those which are within \pm 1 of the original value are particularly preferred, and those within \pm 0.5 of the original value are even more particularly preferred.

[0345] While discussion has focused on functionally equivalent polypeptides arising from amino acid changes, it will be appreciated that these changes can be effected by alteration of the encoding DNA, taking into consideration also that the genetic code is degenerate and that two or more codons can code for the same amino acid.

[0346] Thus, it will also be understood that this invention is not limited to the particular amino acid and nucleic acid sequences of any of SEQ ID NOs: 1-11. Recombinant vectors and isolated DNA segments can therefore variously

include an engineered NR or NR LBD mutant polypeptide-encoding region itself, include coding regions bearing selected alterations or modifications in the basic coding region, or include larger polypeptides which nevertheless comprise an NR or NR LBD mutant polypeptide-encoding regions or can encode biologically functional equivalent proteins or polypeptides which have variant amino acid sequences. Biological activity of an engineered NR or NR LBD mutant polypeptide can be determined, for example, by transcription assays known to those of skill in the art.

[0347] The nucleic acid segments of the present invention, regardless of the length of the coding sequence itself, can be combined with other DNA sequences, such as promoters, enhancers, polyadenylation signals, additional restriction enzyme sites, multiple cloning sites, other coding segments, and the like, such that their overall length can vary considerably. It is therefore contemplated that a nucleic acid fragment of almost any length can be employed, with the total length preferably being limited by the ease of preparation and use in the intended recombinant DNA protocol. For example, nucleic acid fragments can be prepared which include a short stretch complementary to a nucleic acid sequence set forth in any of SEQ ID NOs: 1, 3, 5 and 7, such as about 10 nucleotides, and which are up to 10,000 or 5,000 base pairs in length. DNA segments with total lengths of about 4,000, 3,000, 2,000, 1,000, 500, 200, 100, and about 50 base pairs in length are also useful.

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[0348] The DNA segments of the present invention encompass biologically functional equivalents of engineered NR, or NR LBD mutant polypeptides. Such sequences can rise as a consequence of codon redundancy and functional equivalency that are known to occur naturally within nucleic acid sequences and the proteins thus encoded. Alternatively, functionally equivalent proteins or polypeptides can be created via the application of recombinant DNA technology, in which changes in the protein structure can be engineered, based on considerations of the properties of the amino acids being exchanged. Changes can be introduced through the application of site-directed mutagenesis techniques, e.g., to introduce improvements to the antigenicity of the protein or to test variants of an engineered mutant of niques, e.g., to introduce improvements to the antigenicity of the protein or to test variants of an engineered mutant of niques, e.g., to introduce improvements to the antigenicity of the protein or to test variants of an engineered mutant of niques, e.g., to introduce improvements to the antigenicity of the protein or to test variants of an engineered mutant of niques, e.g., to introduce improvements to the antigenicity of the protein or to test variants of an engineered mutant of niques, e.g., to introduce improvements to the antigenicity, or other activity at the molecular level. Various the present invention in order to examine the degree of binding activity, or other activity at the molecular level. Various site-directed mutagenesis techniques are known to those of skill in the art and can be employed in the present invention.

[0349] The invention further encompasses fusion proteins and peptides wherein an engineered mutant coding region of the present invention is aligned within the same expression unit with other proteins or peptides having desired functions, such as for purification or immunodetection purposes.

[0350] Recombinant vectors form important further aspects of the present invention. Particularly useful vectors are those in which the coding portion of the DNA segment is positioned under the control of a promoter. The promoter can be that naturally associated with an NR gene, as can be obtained by isolating the 5' non-coding sequences located upstream of the coding segment or exon, for example, using recombinant cloning and/or PCR technology and/or other upstream of the art, in conjunction with the compositions disclosed herein.

[0351] In other embodiments, certain advantages will be gained by positioning the coding DNA segment under the control of a recombinant, or heterologous, promoter. As used herein, a recombinant or heterologous promoter is a promoter that is not normally associated with an NR gene in its natural environment. Such promoters can include promoters isolated from bacterial, viral, eukaryotic, or mammalian cells. Naturally, it will be important to employ a promoter that effectively directs the expression of the DNA segment in the cell type chosen for expression. The use of promoter and cell type combinations for protein expression is generally known to those of skill in the art of molecular biology (see, e.g., Sambrook et al., (1989) Molecular Cloning: A Laboratory Manual, Cold Spring Harbor Laboratory, United States of America, specifically incorporated herein by reference). The promoters employed can be new York, United States of America, specifically incorporated herein by reference). The promoters employed can be used under the appropriate conditions to direct high level expression of the introduced DNA segment, such as is advantageous in the large-scale production of recombinant proteins or peptides. One preferred promoter system contemplated for use in high-level expression is a T7 promoter-based system.

X.E. Antibodies to an Engineered NR or NR LBD Mutant Polypeptide of the Present Invention

[0352] The present invention also provides an antibody that specifically binds a engineered NR or NR LBD mutant polypeptide and methods to generate same. The term "antibody" indicates an immunoglobulin protein, or functional portion thereof, including a polyclonal antibody, a monoclonal antibody, a chimeric antibody, a single chain antibody, Fab fragments, and a Fab expression library. "Functional portion" refers to the part of the protein that binds a molecule of interest. In a preferred embodiment, an antibody of the invention is a monoclonal antibody. Techniques for preparing and characterizing antibodies are well known in the art (see, e.g., Harlow & Lane, (1988) Antibodies: A Laboratory Manual, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York, United States of America). A monoclonal antibody of the present invention can be readily prepared through use of well-known techniques such as the hybridoma techniques exemplified in U.S. Patent No 4,196,265 and the phage-displayed techniques disclosed in U.S. Patent No. 5 260 203

[0353] The phrase "specifically (or selectively) binds to an antibody", or "specifically (or selectively) immunoreactive with", when referring to a protein or peptide, refers to a binding reaction which is determinative of the presence of the protein in a heterogeneous population of proteins and other biological materials. Thus, under designated immunoassay

conditions, the specified antibodies bind to a particular protein and do not show significant binding to other proteins present in the sample. Specific binding to an antibody under such conditions can require an antibody that is selected for its specificity for a particular protein. For example, antibodies raised to a protein with an amino acid sequence encoded by any of the nucleic acid sequences of the invention can be selected to obtain antibodies specifically immunoreactive with that protein and not with unrelated proteins.

[0354] The use of a molecular cloning approach to generate antibodies, particularly monoclonal antibodies, and more particularly single chain monoclonal antibodies, are also provided. The production of single chain antibodies has been described in the art. See, e.g., U.S. Patent No. 5,260,203. For this approach, combinatorial immunoglobulin phagemid libraries are prepared from RNA isolated from the spleen of the immunized animal, and phagemids expressing appropriate antibodies are selected by panning on endothelial tissue. The advantages of this approach over conventional hybridoma techniques are that approximately 10⁴ times as many antibodies can be produced and screened in a single round, and that new specificities are generated by heavy (H) and light (L) chain combinations in a single chain, which further increases the chance of finding appropriate antibodies. Thus, an antibody of the present invention, or a "derivative" of an antibody of the present invention, pertains to a single polypeptide chain binding molecule which has binding specificity and affinity substantially similar to the binding specificity and affinity of the light and heavy chain aggregate variable region of an antibody described herein.

[0355] The term "immunochemical reaction", as used herein, refers to any of a variety of immunoassay formats used to detect antibodies specifically bound to a particular protein, including but not limited to competitive and non-competitive assay systems using techniques such as radioimmunoassays, ELISA (enzyme linked immunosorbent assay), "sandwich" immunoassays, immunoradiometric assays, gel diffusion precipitation reactions, immunodiffusion assays, in situ immunoassays (e.g., using colloidal gold, enzyme or radioisotope labels), western blots, precipitation reactions, agglutination assays (e.g., gel agglutination assays, hemagglutination assays), complement fixation assays, immunofluorescence assays, protein A assays, and immunoelectrophoresis assays, etc. See Harlow & Lane, (1988) Antibodies: A Laboratory Manual, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York, United States of America, for a description of immunoassay formats and conditions.

X.F. Method for Detecting an Engineered NR or NR LBD Mutant Polypeptide or an Nucleic Acid Molecule Encoding the Same

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[0356] In another aspect of the invention, a method is provided for detecting a level of an engineered NR or NR LBD mutant polypeptide using an antibody that specifically recognizes an engineered NR or NR LBD mutant polypeptide, or portion thereof. In a preferred embodiment, biological samples from an experimental subject and a control subject are obtained, and an engineered NR or NR LBD mutant polypeptide is detected in each sample by immunochemical reaction with the antibody. More preferably, the antibody recognizes amino acids of any one of SEQ ID NOs: 2, 4, 6 and 8, and is prepared according to a method of the present invention for producing such an antibody.

[0357] In one embodiment, an antibody is used to screen a biological sample for the presence of an engineered NR or NR LBD mutant polypeptide. A biological sample to be screened can be a biological fluid such as extracellular or intracellular fluid, or a cell or tissue extract or homogenate. A biological sample can also be an isolated cell (e.g., in culture) or a collection of cells such as in a tissue sample or histology sample. A tissue sample can be suspended in a liquid medium or fixed onto a solid support such as a microscope slide. In accordance with a screening assay method, a biological sample is exposed to an antibody immunoreactive with an engineered NR or NR LBD mutant polypeptide whose presence is being assayed, and the formation of antibody-polypeptide complexes is detected. Techniques for detecting such antibody-antigen conjugates or complexes are well known in the art and include but are not limited to centrifugation, affinity chromatography and the like, and binding of a labeled secondary antibody to the antibody-candidate receptor complex.

[0358] In another aspect of the invention, a method is provided for detecting a nucleic acid molecule that encodes an engineered NR or NR LBD mutant polypeptide. According to the method, a biological sample having nucleic acid material is procured and hybridized under stringent hybridization conditions to an engineered NR or NR LBD mutant polypeptide-encoding nucleic acid molecule of the present invention. Such hybridization enables a nucleic acid molecule of the biological sample and an engineered NR or NR LBD mutant polypeptide encoding-nucleic acid molecule to form a detectable duplex structure. Preferably, the an engineered NR or NR LBD mutant polypeptide encoding-nucleic acid molecule includes some or all nucleotides of any one of SEQ ID NOs: 1, 3, 5 and 7. It is also preferable that the biological sample comprises human nucleic acid material.

XI. The Role of the Three-Dimensional Structure of the GRα LDB in Solving Additional NR, SR or GR Crystals

[0359] Because polypeptides can crystallize in more than one crystal form, the structural coordinates of a GR α LBD, or portions thereof, as provided by the present invention, are particularly useful in solving the structure of other crystal

forms of GR α and the crystalline forms of other NRs, SRs and GRs. The coordinates provided in the present invention can also be used to solve the structure of NR and NR LBD mutants (such as those described in Sections IX and X above), NR LDB co-complexes, or of the crystalline form of any other protein with significant amino acid sequence homology to any functional domain of a NR.

XI.A. Determining the Three-Dimensional Structure of a Polypeptide Using the Three-Dimensional Structure of the GRα LBD as a Template in Molecular Replacement

[0360] One method that can be employed for the purpose of solving additional GR crystal structures is molecular replacement. See generally, Rossmann (ed.), (1972) The Molecular Replacement Method, Gordon & Breach, New York, New York, United States of America. In the molecular replacement method, the unknown crystal structure, whether it is another crystal form of a GR α or a GR α LBD, (i.e. a GR α or a GR α LBD mutant), or an NR or an NR LBD polypeptide complexed with another compound (a "co-complex"), or the crystal of some other protein with significant amino acid sequence homology to any functional region of the GR α LBD, can be determined using the GR α LBD structure coorsequence dinates provided in Table 2. This method provides an accurate structural form for the unknown crystal more quickly and efficiently than attempting to determine such information ab initio.

[0361] In addition, in accordance with this invention, NR and NR LBD mutants can be crystallized in complex with known modulators. The crystal structures of a series of such complexes can then be solved by molecular replacement and compared with that of the wild-type NR or the wild-type NR LBD. Potential sites for modification within the various binding sites of the enzyme can thus be identified. This information provides an additional tool for determining the most efficient binding interactions, for example, increased hydrophobic interactions, between the GRα LBD and a chemical

[0362] All of the complexes referred to in the present disclosure can be studied using X-ray diffraction techniques (See, e.g., Blundell & Johnson (1985) Method. Enzymol., 114A & 115B, (Wyckoff et al., eds.), Academic Press; McRee, (1993) Practical Protein Crystallography, Academic Press, New York, New York) and can be refined using computer software, such as the X-PLOR™ program (Brünger, (1992) X-PLOR, Version 3.1. A System for X-ray Crystallography and NMR, Yale University Press, New Haven, Connecticut; X-PLOR is available from Accelrys of San Diego, California, United States of America) and the XTAL-VIEW program (McRee, (1992) J. Mol. Graphics 10:44-46; McRee, (1993) Practical Protein Crystallography, Academic Press, San Diego, California, United States of America). This information can thus be used to optimize known classes of GR and GR LBD modulators, and more importantly, to design and synthesize novel classes of GR and GR LBD modulators.

Laboratory Examples

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[0363] The following Laboratory Examples have been included to illustrate preferred modes of the invention. Certain aspects of the following Laboratory Examples are described in terms of techniques and procedures found or contemplated by the present inventors to work well in the practice of the invention. These Laboratory Examples are exemplified through the use of standard laboratory practices of the inventors. In light of the present disclosure and the general level of skill in the art, those of skill will appreciate that the following Laboratory Examples are intended to be exemplary only and that numerous changes, modifications and alterations can be employed without departing from the spirit and scope of the invention.

Laboratory Example 1

Expression Of a GRα Polypeptide

[0364] BL21(DE3) cells (Novagen/Invitrogen, Inc., Carlsbad, California, United States of America) were transformed with the expression plasmid 6xHisGST-GR(521-777) F602S pET24 following established protocols. Following overnight incubation at 37°C a single colony was used to inoculate a 10 ml LB culture containing 50 $\mu g/ml$ kanamycin (Sigma, St. Louis, Missouri, United States of America). The culture was grown for ~8 hrs at 30°C and then a 500μl aliquot was used to inoculate flasks containing 1 liter CIRCLE GROW™ media (Bio 101, Inc., Vista, California, United States of America) and the required antibiotic. The cells were then grown at 22°C to an OD600 between 2 and 3 and then cooled to 18°C. Following a 30 min equilibration at that temperature, dexamethasone (Spectrum Chemical Co., Gardena, California, United States of America) (50 or 100 μ M final concentration) was added. Induction of expression was achieved by adding IPTG (BACHEM, Philapdelphia, Pennsylvania, United States of America) (final concentration 1 mM) to the cultures. Expression at 18°C was continued for ~20 hrs. Cells were then harvested and frozen at -80°C. [0365] In another example, GR LBD was expressed in the presence of 50 or 100 µM FP. This approach eliminated the step of exchanging dexamethasone with fluticasone propionate during the purification process. The GR LBD/FP

complex that was formed by expressing the GR LBD in the presence of 50 or 100 µM FP also formed crystals.

Laboratory Example 2

Purification Of a GR LBD (521-777) F602S Polypeptide Bound to Fluticasone Propionate

[0366] Approximately 37 g of cells were resuspended in 500 mL lysis buffer (50mM Tris pH =8.0, 150 mM NaCl, 2M urea, and 30 µM fluticasone propionate) and lysed by passing 3 times through a Rannie APV Lab 2000 homogenizer (Rannie APV, Copenhagen, Denmark). The lysate was subjected to centrifugation (30 minutes, 20,000g, 4°C). The cleared supernatant was filtered through coarse pre-filters and 50 mM Tris, pH= 8.0, containing 150 mM NaCl and 1M imidazole was added to obtain a final imidazole concentration of 50mM. This lysate was loaded onto a XK-26 column (Pharmacia, Peapack, New Jersey) packed with Sepharose [Ni2+ charged] chelation resin (Pharmacia, Peapack, New Jersey) and pre-equilibrated with lysis buffer supplemented with 50mM imidazole. Following loading, the column was washed to baseline absorbance with equilibration buffer. This was followed by a linear (0 to 10%) glycerol and (2M to 0M) urea gradient. For elution the column was developed with a linear gradient from 50 to 500 mM imidazole in 50mM Tris pH =8.0, 150 mM NaCl, 10% glycerol and 30 μ M fluticasone proprionate. Column fractions of interest were pooled and 500 units of thrombin protease (Amersham Pharmacia Biotech, Piscataway, New Jersey, United States of America) were added for the cleavage of the fusion protein. This solution was then dialyzed against 1 liter of 50 mM Tris pH = 8.0, 150 mM NaCl, 10% glycerol and 30 µM fluticasone proprionate for ~24 hrs at 4°C. The digested protein sample was filtered and then reloaded onto a fresh (previously equilibrated) Ni++ charged column. The cleaved GR LBD was collected in the flow-through fraction. The diluted protein sample was concentrated with CENTRIPREP™ 10K centrifugal filtration devices (Amicon/Millipore, Bedford, Massachusetts, United States of America) to a volume of 45ml and then diluted 5 fold with 50 mM Tris pH=8.0, 10 % glycerol, 10 mM DTT, 0.5 mM EDTA and 30 µM fluticasone proprionate. The sample was then loaded onto a pre-equilibrated XK-26 column (Pharmacia, Peapack, New Jersey, United States of America) packed with Poros HQ resin (PerSeptive Biosystems, Framingham, Massachusetts, United States of America). The cleaved GR LBD was collected in the flowthrough. The NaCl concentration was adjusted to 500mM and the purified protein was concentrated to ~15 mg/ml using the CENTRIPREP™ 10K centrifugal filtration devices and then frozen at -80°C.

[0367] Figure 1 is an autoradiogram of a polyacrylamide gel summarizing the isolation of a GR mutant of the present invention. In this figure, Lane 1 contains the insoluble pellet fraction. Lane 2 contains the soluble supernatant fraction. Lane 3 contains pooled eluent from the initial Ni²⁺ column. Lane 4 contains the sample after thrombin digestion. Lane 5 contains the flow through fraction after reload of the Ni²⁺ column. Lane 6 contains the protein after anion exchange. The positions of molecular mass (kDa) markers are indicated on the left side of the figure.

35 Laboratory Example 3

Preparation of a GR/TIF2/Fluticasone Proprionate (FP) Complex

[0368] The GR/TIF2/FP complex was prepared by adding a 1.2-fold excess of a TIF2 peptide containing sequence of KENALLRYLLDKDD (SEQ ID NO: 9) during the buffer exchange step as described below. The above complex was concentrated then diluted 1:1 with a buffer containing 500 mM NH40AC, 50 mMTris, pH 8.0, 10% glycerol, 10 mM dithiothreitol (DTT), 0.5mM EDTA and 0.05% β -octyl-glucoside and concentrated to 1 ml. The complex was diluted 1: 9 with the above buffer and slowly concentrated to 7.5 mg/ml in the presence of an additional 1.2 fold excess of a TIF2 peptide (residues 740-753), aliquoted and stored at -80 °C.

Laboratory Example 4

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Crystallization and Data Collection

[0369] The GR/TIF2/FP crystals were grown at room temperature in hanging drops containing 3.0 μl of the above protein-ligand solutions, and 0.5 μl of well buffer (60mM Bis-Tris-Propane, PH 7.5-8.5, and 1.5-1.7 M magnesium sulfate). Crystals appeared overnight and continuously grew to a size of up to 300 microns within several weeks. Before data collection, crystals were flash frozen in liquid nitrogen.

[0370] The GR/TIF2/FP crystals formed in the P6₁ space group, with a = b = 127.656 Å, c = 87.725 Å, $\alpha = \beta = 90^\circ$, and $\gamma = 120^\circ$. Each asymmetry unit contains two molecules of the GR LBD with 58% of solvent content. Data were collected using a MAR165 CCD detector at the 17BM of the Advanced Photon Source (APS) of Argonne National Laboratory in Chicago, Illinois, United States of America. The observed reflections were reduced, merged and scaled with DENZO and SCALEPACK in the HKL2000 package (Otwinowski et al., (1993) in Proceedings of the CCP4 Study

Weekend: Data Collection and Processing. (Sawyer et al., eds), pp. 56-62, SERC Daresbury Laboratory, England).

Laboratory Example 5

5 Structure Determination and Refinement

[0371] A model of GR/TIF2/FP complex was built based on the crystal structure of a GR/TIF2/dexamethasone complex ("the Dex structure"; coordinates of the Dex structure are presented in Table 3). This model was used in molecular replacement search with the CCP4 AmoRe program (Collaborative Computational Project Number 4, 1994; Navaza, (1994) Acta. Cryst. A50:157-163) to determine the initial structure solutions. The calculated phase from the molecular replacement solutions was improved with solvent flattening, histogram matching and the two-fold noncrystallographic averaging as implemented in the CCP4 dm program, and produced a clear map for the GR LBD, the TIF2 peptide and the dexamethasone. Model building proceeded by employing the QUANTA software (Accelrys Inc., San Diego, California, United States of America), and refinement continued by employing the CNX software (Accelrys Inc., San Diego, California, United States of America; Brunger et al., (1998) Acta. Crystallogr. D54:905-921) and multiple cycle of manual rebuilding. The statistics of the structure are summarized in Table 1.

Laboratory Example 6

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20 Construction of a Docking Model for the Componund Benzoxazin-1-one Using a GR/FP/TIF2 Structure

[0372] The second subunit of the GR structure was selected as the initial crystal structure in which to model the benzoxazin-1-one compound and loaded into the display area of INSIGHTII (Accelrys Inc., San Diego, California, United States of America). As a reference, the crystal structure of the bound FP molecule in that subunit was loaded into the same display area.

[0373] Initial coordinates of the benzoxazin-1-one were generated using CONCORD v4.0.4 (Tripos Inc., St. Louis, Missouri, United States of America). Conformers of the initial benzoxazin-1-one geometry were generated using the GROW algorithm available in MVP and optimized using CVFF as implemented in MVP (Lambert, (1997) in Practical Application of Computer-Aided Drug Design (Charifson, ed.), Marcel Dekker, New York, New York, United States of America, pp. 243-303). Each of the resulting conformers were then hand-docked into the GR crystal structure and the best-fitting conformer was selected as the proposed binding conformation of the benzoxazin-1-one.

[0374] The initial GR/benzoxazin-1-one docking model complex was exported from the INSIGHTII software in the identical coordinate reference frame as the GR/FP crystal structure. Geometry optimization of the GR/benzoxazin-1-one complex was carried out using CVFF as implemented in MVP. All atoms in the complex remained fixed in space except for those atoms contained in the benzoxazin-1-one and the initial GR structure that were within 6 angstroms of any atom in the benzoxazin-1-one. The CVFF energy terms were calculated using only those atoms within 16 angstroms of (and including) the benzoxazin-1-one. Geometry optimization of the protein-ligand complex was carried out using the conjugate gradient method as implemented in MVP and with a convergence criteria of a 0.1 change in the gradient. [0375] Figure 9 depicts a docking model of a GR LBD with the benzoxazine-1-one ligand generated as described hereinabove. Figure 10 depicts various interactions formed between the benzoxazin-1-one ligand and GR residues that comprising the binding pocket. Intermolecular distances are indicated in the figure. Figure 11 depicts the docking of the benzoxazin-1-one ligand with the GR binding pocket. The docking model comprises an expanded binding pocket, which, as Figure 11 shows, accommodates the *p*-fluorophenoilc side chain of the ligand.

[0376] Figure 12 a depiction of the overlay of the GR/Dex crystal structure (grey) with the GR/benzoxazin-1-one model (white) comparing the geometries of the ligands and the relative locations of the amino acid side chains that compose the GR expanded binding pocket. Conformational differences between four residues (M560, M639, W642, and W735) allow for the additional volume of the expanded binding pocket. This added volume provides additional space in the binding pocket and allows the large *p*-fluorophenol group of the Schering compounds to extend beyond the dexamethasone D-ring and into this region. This added volume is observed in the GR/benzoxazin-1-one model but is not observed in the GR/Dex structure.

[0377] Table 6 presents a subset of atomic coordinates of $GR\alpha$ in complex with benzoxazin-1-one obtained from modeling of the crystal structure of $GR\alpha$ in complex with FP.

Laboratory Example 7

Construction of an AR Homology Model Bound with Bicalutamide Using a GR/FP/TIF2 Structure

[0378] A preferred method of constructing an NR homology model using a GR/TIF2/FP structure of the present

invention is disclosed. This method is illustrated by way of specific example, namely the construction of an AR homology model. Those of ordinary skill in the art will appreciate that although the method is presented in the context of generating an AR homology model, the method can be employed *mutatis mutandis* to generate homology models for all NRs.

[0379] In the formulation of an AR homology model based on the GR/TIF2/FP structure of the present invention, sequence alignments of the AR and GR LBDs were initially obtained using the alignment algorithm implemented in MVP (Lambert, (1997) in Practical Application of Computer-Aided Drug Design (Charifson, ed.), Marcel Dekker, New York, New York, United States of America, pp. 243-303). After three-dimensional alignment and coordinate translation of the GR/TIF2/FP crystal structure into a standard orientation using MVP, the second subunit of the GR/TIF2/FP structure was chosen for the AR homology model. Throughout the building the homology model, the Homology package in the INSIGHTII program (Accelrys Inc., San Diego, California, United States of America) was used to visualize the proteins, extract the LBD sequences, manually align the sequences, transform the amino acid residues, manually manipulate the amino acid sidechain conformers, and export the three-dimensional coordinates in appropriate file formats.

[0380] The second subunit of the GR/TIF2/FP structure was loaded into the display area of INSIGHTII along with the AR/DHT structure for comparison purposes. Using the Homology package, the GR/TIF2/FP and AR/DHT primary amino acid sequences were extracted from the crystal structures. The sequences were then manually aligned using Homology and by comparison with those alignments obtained using the MVP program.

[0381] The transformation of the amino acid residues was carried out and initial three-dimensional coordinates of the AR homology model were assigned using the AssignCoods method in the Homology modeling package. In assigning the coordinates of residues I672-K883 in the AR model, the corresponding coordinates of residues T531-D742 in the GR/TIF2/FP crystal structure were used. In assigning the coordinates of residues M886-H917 in the AR model, the corresponding coordinates of residues K744-H775 in the GR/TIF2/FP crystal structure were used. For the coordinates of residues S884-H885 in the AR model, the corresponding coordinates from the AR/DHT crystal structure were used. Manual modifications of amino acid side chain conformers were carried out after comparing the conformations of corresponding residues in the initial AR homology model and the AR/DHT crystal structure. The conformations of the following AR model residues were modified based on these comparisons: L880, M895, F697, K777, T877, and O711.

[0382] Initial coordinates of bicalutamide were generated using CONCORD v4.0.4 (Tripos Inc., St. Louis, Missouri, United States of America). Conformers of the initial bicalutamide geometry were generated using the GROW algorithm available in MVP and optimized using CVFF as implemented in MVP. Each of the resulting conformers were then hand-docked into the initial AR homology model, and the best-fitting conformer was selected as the proposed binding conformation of bicalutamide.

[0383] The initial AR/bicalutamide homology model complex was exported from INSIGHTII in the identical coordinate reference frame as the GR/TIF2/FP crystal structure. Using MVP and the sequence alignments of GR and AR, the residue numbering of the initial AR model was corrected.

[0384] Geometry optimization of the AR/bicalutamide homology model complex was carried out using CVFF as implemented in MVP. All atoms in the complex remained fixed in space except for those atoms contained in bicalutamide and the initial AR model that were within 6 angstroms of any atom in bicalutamide. The CVFF energy terms were calculated using only those atoms within 16 angstroms of (and including) bicalutamide. Geometry optimization of the protein-ligand complex was carried out using the conjugate gradient method as implemented in MVP and with a convergence criteria of a 0.1 change in the gradient.

[0385] Figure 18A is a ribbon diagram that depicts an AR homology model formed using the GR/TIF2/FP structure of the present invention and the method disclosed hereinabove. The homology model comprises an expanded binding pocket similar to that observed in the GR/TIF2/FP structure of the present invention. The binding pocket is represented as a solid surface. By way of comparison, Figure 18B depicts a known AR/DHT LBD structure. This structure lacks an expanded binding pocket and cannot accommodate a bicalutamide ligand.

[0386] Figure 19 depicts a docking model of an AR LBD with the bicalutamide ligand generated as described here-inabove. The AF2, H3, H9 aned H10 helices are labeled. Figure 20 depicts an orthogonal view of the structure depicted in Figure 19 and shows the orientation of the ligand in the binding pocket of AR. Figure 21, which is a stick diagram, depicts various interactions formed between the bicalutamide ligand and AR residues that comprising the binding pocket. Intermolecular distances are indicated in the figure. Figure 21 depicts the docking of the benzoxazin-1-one ligand with the AR binding pocket. Figure 22 is a ribbon diagram that shows the extension of the p-fluorophenyl group of the bicalutamide ligand into the expanded binding pocket formed in the AR-bicalutamide model.

[0387] Table 4 presents the atomic coordinates of AR in complex with bicalutamide obtained from homology modeling of the crystal structure coordinates of $GR\alpha$ in complex with FP.

Laboratory Example 8

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Construction of a PR Homology Model Bound with RWJ-60130 Using a GR/TF2/FP Crystal Structure

[0388] As noted, a GR/TIF2/FP structure of the present invention can be employed to construct a homology model of an NR. In the following section, a preferred method is presented by way of specific example, namely the construction of a PR homology model. In the following example, although PR is specifically recited, any NR can be employed and the following discussion is intended to illustrate one embodiment of this general method.

[0389] First, sequence alignments of the PR and GR LBDs were obtained using the alignment algorithm implemented in MVP. After three-dimensional alignment and coordinate translation of the GR/TIF2/FP crystal structure into a standard orientation using MVP, the second subunit of the GR/TIF2/FP structure was chosen for the PR homology modeling

[0390] The second subunit of the GR/TIF2/FP structure was loaded into the display area of INSIGHTII along with the PR/PG structure for comparison purposes. Using the Homology package, the GR/TIF2/FP and PR/PG primary amino acid sequences were extracted from the crystal structures. The sequences were then manually aligned using Homology and by comparison with those alignments obtained using the MVP program.

[0391] The transformation of the amino acid residues was carried out and initial three-dimensional coordinates of the PR homology model were assigned using the AssignCoods method in the Homology modeling package. In assigning the coordinates of residues Q682-Q897 and A900-K932 in the PR model, the corresponding coordinates of residues Q527-D742 and T744-Q776 in the GR/TIF2/FP crystal structure, respectively, were used. For the coordinates of residues S898-R899 in the PR model, the corresponding coordinates from the PR/PG crystal structure were used. Manual modifications of amino acid side chain conformers were carried out after comparing the conformations of corresponding residues in the initial PR homology model and the PR/PG crystal structure. The conformations of the following PR model residues were modified based on these comparisons: L799, W802, V823, N828, M909, L726, R740, S757,

[0392] Initial coordinates of RWJ-60130 were generated using CONCORD v4.0.4. Conformers of the initial RWJ-60130 geometry were generated using the GROW algorithm available in MVP and optimized using CVFF as implemented in MVP. Each of the resulting conformers were then hand-docked into the initial PR homology model and the best-fitting conformer was selected as the proposed binding conformation of RWJ-60130.

[0393] The initial PR/RWJ-60130 homology model complex was exported from INSIGHTII in the identical coordinate reference frame as the GR/TIF2/FP crystal structure. Using MVP and the sequence alignments of GR and PR, the residue numbering of the initial PR model was corrected.

[0394] Geometry optimization of the PR/RWJ-60130 homology model complex was carried out using CVFF as implemented in MVP. All atoms in the complex remained fixed in space except for those atoms contained in RWJ-60130 and the initial PR model that were within 6 angstroms of any atom in RWJ-60130. The CVFF energy terms were calculated using only those atoms within 16 angstroms of (and including) RWJ-60130. Geometry optimization of the protein-ligand complex was carried out using the conjugate gradient method as implemented in MVP and with a con-

[0395] Figure 23A is a ribbon diagram depicting a PR LBD homology model formed using the method disclosed hereinabove and incorporating a GR/TIF2/FP structure of the present invention. The ligand binding pocket is depicted as a solid surface and comprises an expanded binding pocket, as seen in the GR/TIF2/FP structures of the present invention. On the other hand, Figure 23B depicts a known PR LBD structure, shown with the ligand progesterone positioned in the binding pocket. The PR/PG structure does not comprise an expanded binding pocket and cannot

[0396] Figure 24 is a ribbon diagram docking model depicting the association of the ligand RWJ-60130 with an AR LBD comprising an expanded binding pocket. The AR was modeled based on the GR/TIF2/FP structure of the present invention. Figure 25 is an orthogonal view of the structure depicted in Figure 24. Continuing, Figure 26 is a stick model of the interactions the RWJ-60130 ligand forms with the binding pocket of AR. Intermolecular distances are indicated. Figure 27 is an orthogonal view of the structure depicted in Figure 25. Figure 27 shows the extension of the p-fidodophenyl group of the RWJ-60130 ligand into the expanded binding pocket of the AR model. As noted, known AR models and structures that lack the expanded binding pocket cannot fully accommodate the RWJ-60130 ligand.

[0397] Table 5 presents atomic coordinates of PR in complex with RWJ-60130 obtained from homology modeling of the crystal structure coordinates of $GR\alpha$ in complex with FP.

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Laboratory Example 9

Construction of a Binding Model for A-222977 Using the GR/TIF2/FP Crystal Structure

[0398] The second subunit of the GR structure was selected as the initial crystal structure in which to model A-222977 and loaded into the display area of INSIGHTII. As a reference, the crystal structure of the bound FP molecule in that subunit was loaded into the same display area.

[0399] Initial coordinates of A-222977 were generated using CONCORD v4.0.4. Conformers of the initial geometry were generated using the GROW algorithm available in MVP and optimized using CVFF as implemented in MVP. Each of the resulting conformers were then hand-docked into the GR crystal structure and the best-fitting conformer was selected as the proposed binding conformation of A-222977.

[0400] The initial GR/A-222977 model complex was exported from INSIGHTII in the identical coordinate reference frame as the GR/TIF2/FP crystal structure. Geometry optimization of the GR/A-222977 complex was carried out using CVFF as implemented in MVP. All atoms in the complex remained fixed in space except for those atoms contained in A-222977 and the initial GR structure that were within 6 angstroms of any atom in A-222977. The CVFF energy terms were calculated using only those atoms within 16 angstroms of (and including) A-222977. Geometry optimization of the protein-ligand complex was carried out using the conjugate gradient method as implemented in MVP and with a convergence criteria of a 0.1 change in the gradient.

[0401] Figure 13 is a docking model of the ligand A-222977 bound to GR. The GR is the GR/TIF2/FP structure that forms an aspect of the present invention. The model depicted in Figure 13 comprises the expanded binding pocket observed in the GR/TIF2/FP structure. Figure 15 is an orthogonal view of the structure of Figure 13. Figure 15 shows the extension of the methyl-sulfonyl-methoxyl-phenyl side chain of the A-222977 ligand into the expanded binding pocket formed in the GR structure. It is not possible to accurately dock the A-222977 ligand into the GR structure without the presence of the expanded binding pocket, due to the protrusion of the methyl-sulfonyl-methoxyl-phenyl side chain beyond the bounds of the binding pocket. Figure 14 is a stick drawing that depicts the interaction between the residues of the ligand binding pocket of GR, which comprises the expanded binding pocket, and the A-222977 ligand.

[0402] Figure 16 is an overlay of the GR/Dex structure with the GR/A-222977 structure. The ligands are represented as stick structures. Figure 16 illustrates several conformational differences between four residues (M560, M639, W642, and W735) contribute to the additional volume of the expanded binding pocket. The added volume encompassed by the expanded binding pocket provides additional space that allows the large methyl-sulfonyl-methoxyl-phenyl group of the A-222977 ligand to extend beyond the dexamethasone D-ring and into this region. Although this space is observed in the GR/A-222977 structure, it is not observed in the GR/Dex structure.

[0403] Table 7 presents a subset of atomic coordinates of GR α in complex with A-222977 obtained from modeling of the crystal structure of GR α in complex with FP.

Laboratory Example 11

Construction of a Homology Model for MR Using a GR/TIF2/FP Structure

[0404] A model for the human MR LBD was built with the program MVP using the amino acid sequences of human MR (Genbank entry M16801.1), human GR (Genbank entry X03225.1), human PR (Genbank entry X51730.1) and human AR (SwissProt entry ANDR_HUMAN), together with the X-ray structures of GR bound to FP (Table 2) and PR bound to progesterone (Williams & Sigler, PDB entry 1A28). The MVP program was first used to align the amino acid sequences. This alignment, Figure 17, has a single gap, occurring in the GR sequence between GR Asp742 and Lys743, at a position corresponding to MR Ser949, PR Ser898 and AR Ser884. This gap lies in the loop between helix-10 and the AF2 helix. The alignment establishes a corresponding template residue in GR for each residue in the MR LBD except for MR Ser949, which lies in the single gap position. The A subunit of the GR/TIF2/FP complex, Table 2, as was selected as the primary template for the MR model. This structure provides coordinates for GR residues 523-777. Using the residue correspondence from the sequence alignment, the MVP program generated coordinates for the backbone atoms of MR residues 729-948 and 950-984 by copying the corresponding coordinates in GR. The MVP program also copies coordinates for side-chain atoms in MR residues when the side-chain is identical to the corresponding residue in GR. Side-chains that differ from the corresponding side-chains in GR are built using standard bond lengths, angles and dihedral angles, but are built to adopt a conformation similar to that in GR when possible. Initially, no coordinates were generated for Ser949. Energy calculations were used to refine the side-chain conformations. The FP ligand was included in the energy calculations to prevent protein side-chains from moving into the volume normally occupied by the ligand. The protein and ligand were protonated as expected at pH 7, and modeled with the CFF91 force field, as implemented in MVP. A grow calculation was used to generate alternative, low energy conformations for

the side-chains lying within 10Šof the FP ligand. No energy refinement was applied to side-chains lying more than 10Šfrom the FP ligand. The grow calculation used repeated cycles of torsional coordinate miminization on partially grown side-chain arrangements, followed by cartesion coordinate minimization to an RMS gradient of 0.3 kcal/Ų. Backbone atoms, and side-chains that are identical in MR and GR, were held fixed during the energy calculatons. After energy refinement of the side-chains in and around the ligand binding pocket, the helix-10/AF2 loop from PR was transplanted into the MR model. This transplant model was built by first superimposing the PR structure onto the GR and MR structures, replacing MR residues 945-950 with PR residues 894-904, renumbering these residues according to the MR numbering scheme, and mutating Ile947 to Arg, Gln948 to Glu, Arg950 to His and Ser953 to Lys. The entire model was then examined graphically within Insight-II. Side-chain conformations were adjusted graphically as necessary to avoid overlaps. Table 11 presents the three-dimensional coordinates for the MR homology model.

References

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[0405] The references listed below as well as all references cited in the specification are incorporated herein by reference to the extent that they supplement, explain, provide a background for or teach methodology, techniques and/or compositions employed herein.

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U.S. Patent No. 6,008,033 U.S. Patent No. 6,236,946

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TABLE 1

		TABLE 1
,	STATISTICS OF CRYSTAL	LOGRAPHIC DATA AND STRUCTURE
-	Crystals	GR/TIF2 in complex with Fluticasone Proprionate
5	Space Group Resolution (Å) Unique Reflections (N) Completeness (%) I/σ R _{sym} ^a (%)	P6 ₁ 20.0- 2.5 28,224 99.7 26.8 8.5
Refir	nement Statistics:	
5	Resolution (Å) R factor ^b (%) R free (%)	10.0-2.6 24.47 27.49
	R.M.S.D. Bond Lengths (Å)	0.016
o	R.M.S.D. Bond Angles(degrees) Number of H ₂ O Total Non-hydrogen	2.34 145 4589
	Atoms	

R.M.S.D. is the root mean square deviation from ideal geometry.

 $a_{R_{sym}=\Sigma \mid lavg - li \mid \Sigma \mid i}$ 55

 $_{\rm bR_{factor}}^{\rm F}$ | Fp - Fpcalc | / $_{\rm E}$ Fp, where Fp and Fpcalc are observed and calculated structure factors, R free is calculated from a randomly chosen 8% of reflections that never be used in refinement and R factor is calculated for the remaining 92% of reflections.

TABLE 2

_			TURE COOR							
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	1	СВ	ALA	523	65.188	9.713	-17.288	1.00	138.77	Α
10	2	С	ALA	523	63.798	11.629	-16.450	1.00	138.81	Α
	3	0	ALA	523	63.723	12.079	-15.303	1.00	139.25	Α
	4	N	ALA	523	66.269	11.624	-16.161	1.00	138.92	Α
	5	CA	ALA	523	65.144	11.215	-17.046	1.00	138.73	Α
15	6	N	THR	524	62.743	11.446	-17.237	1.00	138.36	Α
	7	CA	THR	524	61.387	11.854	-16.883	1.00	137.51	Α
	8	СВ	THR	524	60.369	11.258	-17.876	1.00	137.43	Α
20	9	OG1	THR	524	60.906	11.379	-19.190	1.00	137.90	Α
	10	CG2	THR	524	59.044	12.033	-17.854	1.00	137.31	A
	11	С	THR	524	60.839	11.661	-15.489	1.00	136.92	Α
	12	0	THR	524	61.408	11.005	-14.628	1.00	137.02	Α
25	13	N	LEU	525	59.703	12.304	-15.311	1.00	136.09	Α
	14	CA	LEU	525	58.954	12.290	-14.094	1.00	134.94	Α
	15	СВ	LEU	525	59.864	12.306	-12.838	1.00	134.72	Α
30	16	CG	LEU	525	60.146	11.153	-11.810	1.00	134.77	Α
	17	CD1	LEU	525	58.986	10.507	-11.287	1.00	134.77	Α
	18	CD2	LEU	525	60.920	10.054	-12.398	1.00	134.85	Α
_	19	С	LEU	525	58.023	13.514	-14.176	1.00	133.93	Α
35	20	0	LEU	525	58.206	14.401	-15.010	1.00	134.00	Α
	21	N	PRO	526	57.023	13.566	-13.292	1.00	132.74	Α
ĺ	22	CD	PRO	526	55.931	14.501	-13.003	1.00	132.69	Α
40	23	CA	PRO	526	57.030	12.420	-12.404	1.00	131.51	Α
	24	СВ	PRO	526	55.930	12.705	-11.385	1.00	131.91	Α
	25	CG	PRO	526	55.174	13.816	-11.901	1.00	132.44	Α
. [26	С	PRO	526	57.009	10.986	-12.877	1.00	130.00	Α
45	27	0	PRO	526	57.248	10.597	-14.033	1.00	129.99	Α
	28	N	GLN	527	56.831	10.220	-11.829	1.00	128.09	Α
	29	CA	GLN	527	56.837	8.807	-11.797	1.00	125.23	Α
50	30	СВ	GLN	527	55.643	8.376	-10.987	1.00	125.24	Α
	31	CG	GLN	527	55.443	9.354	-9.824	1.00	125.04	Α
	32	CD	GLN	527	56.752	9.725	-9.106	1.00	124.76	Α
	33	OE1	GLN	527	57.722	8.964	-9.117	1.00	124.80	Α
55	34	NE2	GLN	527	56.770	10.892	-8.461	1.00	124.17	Α
	35	С	GLN	527	56.986	8.041	-13.057	1.00	122.94	Α

TABLE 2 (continued)

	A	TOMIC ST	RUCTURE CO	OORDINAT	E DATA OPT	2 (continu		FERACTIO	N EDOM TU	FLICAND
_					IPLEX WITH	FLUTICAS	ONE PROPI	ONATE AN	D A TIF2 FR	E LIGAND AGMENT
5	ATC	OM ATC	M KESIDI	JE #	Х	Y	Z	occ		ATOM
	36	0	GLN	527	56.017	7.59	3 -13.64	2 1.00	123.03	A
10	37		LEU	528	58.213	7.96	3 -13.53			
,,	38	CA	LEU	528	58.407	7.07	9 -14.638		116.21	A
	39	СВ	LEU	528	59.246	7.65	8 -15.761		116.64	1 A
	40	CG	LEU	528	58.345	7.39	4 -16.977		116.96	1 A
15	41	CD.	LEU	528	59.130	7.57	5 -18.243		117.15	1 A
	42	CD2	LEU	528	57.763	5.970	0 -16.919		116.94	1 A
	43	С	LEU	528	59.161	6.052	2 -13.836		113.51	
20	44	0	LEU	528	59.794	5.149			113.46	A
20	45	N	THR	529	59.050	6.229			110.03	A
	46	CA	THR	529	59.669	5.385		1.00	106.14	A
	47	СВ	THR	529	61.184	5.482		1.00	106.80	A
25	48	OG1	THR	529	61.553	6.661	+	1.00	107.42	A
	49	CG2	THR	529	61.748	4.253		1.00	107.43	A
	50	С	THR	529	59.162	5.870		1.00	102.32	A
30	51	0	THR	529	59.786	6.705	+	1.00		A
30	52	N	PRO	530	58.041	5.292	+	1.00	102.18	A
	53	CD	PRO	530	57.966	3.889	-10.144	1.00	98.65	A
	54	CA	PRO	530	57.228	5.477	-8.520	1.00	97.93	A
35	55	СВ	PRO	530	56.233	4.320	-8.566	1.00	96.17	A
	56	CG	PRO	530	56.596	3.514	-9.758	1.00	96.64	A
	57	С	PRO	530	57.911	5.556	-7.183	1.00	96.77	A
40	58	0	PRO	530	58.930	4.922	-6.916	1.00	93.87	A
70	59	N	THR	531	57.261	6.307	-6.315	1.00	93.23	A
	60	CA	THR	531	57.776	6.562	-5.003	1.00	91.25	A
	61	СВ	THR	531	57.936	8.030	-4.841	1.00	89.02	A
45	62	OG1	THR	531	56.641	8.646	-4.893	1.00	89.18	
	63	CG2	THR	531	58.762	8.564	-5.981	1.00	88.94	A .
	64	С	THR	531	56.845	6.079	-3.941	1.00	88.16	Α
50	65	0	THR	531	55.680	5.783	-4.204	1.00	87.31	Α
	66	N	LEU	532	57.336	6.023	-2.722	1.00	86.50	A
	67	CA	LEU	532	56.425	5.574	-1.727		85.91	A .
İ	68	СВ	LEU	532	57.077	5.511	-0.355	1.00	84.44	A
55	69	CG	LEU	532	56.840	4.026	-0.104	1.00	83.60	Α
	70	CD1	LEU	532	56.814	3.701	1.352	1.00	82.34	A
							1.002	1.00	83.51	Α

TABLE 2 (continued)

	1		CTURE COOP AIN OF GRa							
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	71	CD2	LEU	532	55.483	3.652	-0.701	1.00	81.89	Α
	72	С	LEU	532	55.159	6.426	-1.720	1.00	84.30	Α
10	73	0	LEU	532	54.047	5.897	-1.757	1.00	85.02	Α
	74	N	VAL	533	55.338	7.742	-1.743	1.00	82.66	Α
	75	CA	VAL	533	54.240	8.696	-1.706	1.00	80.63	Α
15	76	СВ	VAL	533	54.801	10.064	-1.381	1.00	79.39	Α
	77	CG1	VAL	533	55.615	10.561	-2.562	1.00	79.10	Α
	78	CG2	VAL	533	53.691	11.005	-1.029	1.00	78.78	Α
	79	С	VAL	533	53.401	8.825	-2.987	1.00	80.22	Α
20	80	0	VAL	533	52.344	9.457	-2.994	1.00	80.48	Α
	81	N	SER	534	53.883	8.234	-4.068	1.00	78.78	Α
	82	CA	SER	534	53.202	8.309	-5.353	1.00	77.29	Α
25	83	СВ	SER	534	54.226	8.107	-6.456	1.00	79.18	Α
	84	OG	SER	534	53.604	7.680	-7.650	1.00	82.05	Α
	85	С	SER	534	52.180	7.214	-5.427	1.00	75.67	Α
	86	0	SER	534	51.079	7.364	-5.959	1.00	75.13	Α
30	87	N	LEU	535	52.615	6.092	-4.892	1.00	74.52	Α
	88	CA	LEU	535	51.854	4.884	-4.835	1.00	73.20	Α
	89	СВ	LEU	535	52.783	3.790	-4.355	1.00	72.45	Α
35	90	CG	LEU	535	52.371	2.441	-4.887	1.00	71.93	Α
	91	CD1	LEU	535	51.281	1.873	-4.022	1.00	70.60	Α
	92	CD2	LEU	535	51.903	2.610	-6.308	1.00	72.73	Α
	93	С	LEU	535	50.730	5.105	-3.851	1.00	73.41	Α
40	94	0	LEU	535	49.601	4.640	-4.032	1.00	73.44	Α
	95	N	LEU	536	51.055	5.844	-2.804	1.00	73.02	Α
	96	CA	LEU	536	50.093	6.137	-1.768	1.00	72.88	Α
45	97	СВ	LEU	536	50.814	6.850	-0.629	1.00	71.91	Α
	98	CG	LEU	536	50.740	6.099	0.706	1.00	69.79	Α
	99	CD1	LEU	536	51.084	4.641	0.531	1.00	67.04	Α
50	100	CD2	LEU	536	51.681	6.752	1.685	1.00	70.08	Α
50	101	С	LEU	536	48.929	6.972	-2.299	1.00	72.91	Α
	102	0	LEU	536	47.806	6.895	-1.796	1.00	71.27	Α
	103	N	GLU	537	49.217	7.738	-3.348	1.00	74.45	Α
55	104	CA	GLU	537	48.268	8.637	-3.988	1.00	74.79	Α
	105	СВ	GLU	537	49.044	9.639	-4.847	1.00	76.31	Α

TABLE 2 (continued)

	ATOMI BINDI	C STRUCT NG DOMA	TURE COORD IN OF GRa IN	COMPLE	WITH FLUT	TOAGONE	1101101		1F2 FRAGN B	ATOM
5	ATOM	ATOM TYPE	RESIDUE	#	X	Υ	Z	occ		
ŀ	106	CG	GLU	537	48.580	11.065	-4.663	1.00	78.43	A
	107	CD	GLU	537	49.645	12.119	-4.966	1.00	80.45	A
10	108	OE1	GLU	537	50.867	11.850	-4.838	1.00	82.51	A
	109	OE2	GLU	537	49.238	13.247	-5.310	1.00	80.91	A
	110	С	GLU	537	47.203	7.959	-4.843	1.00	74.83	A
	111	0	GLU	537	46.055	8.404	-4.881	1.00	75.79	A
15	112	N	VAL	538	47.583	6.889	-5.521	1.00	74.12	A
	113	CA	VAL	538	46.663	6.190	-6.395	1.00	73.20	A
	114	СВ	VAL	538	47.423	5.486	-7.509	1.00	72.76	A
20	115	CG1	VAL	538	48.767	6.147	-7.685	1.00	71.81	A
	116	CG2	VAL	538	47.590	4.010	-7.178	1.00	72.29	A
	117	C	VAL	538	45.853	5.159	-5.647	1.00	73.07	A
	118	0	VAL	538	44.727	4.846	-6.033	1.00	73.83	A
25	119	N	ILE	539	46.417	4.615	-4.575	1.00	73.33	A
	120	CA	ILE	539	45.664	3.608	-3.854	1.00	74.29	A
	121	СВ	ILE	539	46.586	2.582	-3.130	1.00	73.38	Α
30	122	CG2	ILE	539	47.786	2.259	-4.001	1.00	72.86	A
	123	CG1	ILE	539	47.048	3.116	-1.779	1.00	73.08	A
	123	CD1	ILE	539	47.600	2.026	-0.885	1.00	72.35	A
	<u> </u>	C	ILE	539	44.676	4.212	-2.865	1.00	74.46	A
35	125	10	ILE	539	43.901	3.487	-2.251	1.00	73.49	A
	126	- N	GLU	540	44.691	5.536	-2.725	1.00	76.23	A
	127	CA	GLU	540	43.770	6.223	-1.810	1.00	78.11	Α
40	128	CB	GLU	540	44.092	7.730	-1.758	1.00	78.20	A
	129	CG	GLU	540	43.208	8.584	-0.829	1.00	79.83	A
	130	CD	GLU	540	43.279	8.199	0.649	1.00	80.76	A
	131	OE1		540	44.294	8.501	1.311	1.00	81.61	A
45	132			540	42.309	7.597	1.157	1.00	80.13	A
	133		GLU	540	42.341	5.984	-2.309	1.00	78.89	A
	134		GLU	540	42.016	6.288	-3.462	1.00	79.27	A
50	135		PRO	541	41.480	5.397	-1.464	1.00	79.34	A
	136			541	41.713	4.622	-0.233	1.00	79.21	A
	137			541	40.126	5.182	2 -1.970	1.00	80.63	_ A
	138	- 		541	39.403	4.46	6 -0.819	1.00	79.43	A
55	139			541	40.335	4.53	6 0.35	1.00	78.38	A

TABLE 2 (continued)

	1		TURE COOF							
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	141	С	PRO	541	39.450	6.469	-2.371	1.00	82.68	Α
	142	0	PRO	541	39.811	7.548	-1.892	1.00	82.05	Α
10	143	Ν	GLU	542	38.494	6.370	-3.283	1.00	85.63	Α
	144	CA	GLU	542	37.803	7.576	-3.659	1.00	88.82	Α
	145	СВ	GLU	542	37.681	7.713	-5.182	1.00	90.75	Α
15	146	CG	GLU	542	36.797	6.830	-5.997	1.00	93.88	Α
	147	CD	GLU	542	36.660	7.477	-7.363	1.00	96.19	Α
	148	OE1	GLU	542	37.715	7.811	-7.953	1.00	97.39	Α
	149	OE2	GLU	542	35.523	7.687	-7.836	1.00	97.14	Α
20	150	С	GLU	542	36.491	7.641	-2.888	1.00	89.50	Α
	151	0	GLU	542	35.965	6.619	-2.456	1.00	89.69	Α
	152	N	VAL	543	35.994	8.859	-2.684	1.00	90.04	Α
25	153	CA	VAL	543	34.820	9.119	-1.843	1.00	90.75	Α
	154	СВ	VAL	543	34.644	10.627	-1.691	1.00	91.20	Α
	155	CG1	VAL	543	33.946	10.911	-0.379	1.00	90.59	Α
	156	CG2	VAL	543	36.004	11.325	-1.750	1.00	90.81	Α
30	157	С	VAL	543	33.417	8.509	-2.014	1.00	91.22	Α
	158	0	VAL	543	32.778	8.651	-3.057	1.00	91.07	Α
	159	N	LEU	544	32.926	7.891	-0.936	1.00	91.90	Α
3 5	160	CA	LEU	544	31.607	7.231	-0.896	1.00	93.16	Α
	161	СВ	LEU	544	31.695	5.928	-0.076	1.00	93.10	Α
	162	CG	LEU	544	32.356	4.691	-0.694	1.00	93.35	Α
	163	CD1	LEU	544	31.473	3.432	-0.558	1.00	93.98	Α
40	164	CD2	LEŲ	544	32.607	4.994	-2.153	1.00	93.53	Α
	165	С	LEU	544	30.382	8.011	-0.378	1.00	94.32	Α
	166	0	LEU	544	30.268	8.268	0.826	1.00	94.86	Α
45	167	N	TYR	545	29.456	8.340	-1.289	1.00	94.95	Α
	168	CA	TYR	545	28.207	9.051	-0.955	1.00	94.71	Α
	169	СВ	TYR	545	27.465	9.466	-2.233	1.00	96.89	Α
	170	CG	TYR	545	28.215	10.538	-2.990	1.00	99.74	Α
50	171	CD1	TYR	545	29.253	10.210	-3.860	1.00	101.09	Α
	172	CE1	TYR	545	30.049	11.206	-4.440	1.00	102.49	Α
	173	CD2	TYR	545	27.978	11.887	-2.732	1.00	101.22	Α
55	174	CE2	TYR	545	28.764	12.886	-3.299	1.00	102.50	Α
	175	CZ	TYR	545	29.800	12.540	-4.151	1.00	103.07	Α

TABLE 2 (continued)

				COORDI			E 2 (co			Y DIFF	RACT	ION FR	ом ті	HE LIC	AND	
Γ	ATOMIC	STRU	CTURE	COORDI F GRα IN	NATE DAT	TA OB X WIT	H FLUT	ICASC	NE PF	ROPION	IATE A	AND A T	IF2 FI	RAGM	ATO	<u></u>
	BINDI	NG DOM	AIN O	SIDUE	#	>		Υ		Z	0	cc	В		AIO	"
5	MOTA	ATOM TYPE	HES	SIDOL						-4.675	+-	.00	103.	71	Α	
+	176	ОН	1	YR	545	30.6	13	13.52	_	-0.100	+	.00	93.	35	Α	
t	177	С	+	ΓΥR	545	27.3	+	8.12		-0.165		1.00	92.	.28	A	
10	178	0	1	TYR	545	27.5		6.9° 8.6°	-+	0.677		1.00	92	.46	A	
ŀ	179	N		ALA	546	26.4	+	7.8	-+	1.583		1.00	91	.68	Α	
ŀ	180	CA		ALA	546	25.6		8.5		2.94		1.00	91	.47		
45	181	СВ		ALA	546 	↓	512		89	1.19	5	1.00	90).98		
15	182	C		ALA	546	+	259		166	1.93	0	1.00	9	1.08		1
	183	0		ALA	546	4	712		714	0.06	9	1.00	90	0.37		
	184	N		GLY	547		.696		214	-0.30	2	1.00	8	9.38		<u> </u>
20	185	CA		GLY	547		.380		574	0.76	57	1.00	8	8.66		<u> </u>
	186	С		GLY	547		.359	-	780	1.11	9	1.00	8	8.42	 	Α
	187	0		GLY	547	_	.486 .480		.778	1.2	98	1.00	8	38.15	1	Α
25	188	N		TYR	548		0.574		.246	2.3	27	1.00	1	86.95	1_	Α
23	189	C	4	TYR	548		1.255		.322	3.1	56	1.00		85.67	-	<u> </u>
	190	C	В	TYR	548		0.496).787	4.3	372	1.00		84.73	1_	<u> </u>
	191	С	G	TYR	548		0.490		0.024	5.5	538	1.00		84.74		<u> </u>
30	192	С	01	TYR	548	-+-	9.896	+-	0.510	6.	706	1.00		84.64		
	193	С	E1	TYR	548		19.892		2.043	4.	396	1.00		83.83		
	194	. 0	D2	TYR	548	-+	19.310	-	2.534	5.	553	1.00		84.34		
35	195	5 0	E2	TYR	548		19.321		11.763	6	707	1.00		84.86 	3	_ <u>A</u>
	190	3	cz	TYR	548		18.801		12.254	7	.882	1.00		86.5	-+	
	19	7	ЭН	TYR	548	+	19.379		9.840	1 1	.624	1.00)	87.4		_ <u>_</u>
	19	8	С	TYR	54		19,469	-+-	10.266	3 0	.474	1.00	1	87.5	_	
40	19	9	0	TYR	54		18.247		9.86	5 2	2.300	1.00)	88.1		<u>A</u> _
	20	00	N	ASP			17.071		10.43	В	1.694	1.0	0	88.7		A
	20)1	CA	ASP	54	19	15.908		9.46		1.770	1.0	0	90.	+	<u>A</u>
4:	5 2	02	СВ	ASP		49	14.632		10.07	0	1.281	1.0	0	91.0		A
	2	03	CG	ASP		49	14.72		10.95	51	0.404			94.		
	2	04	OD1	ASP		49 49	13.55		9.67	76	1.763			91.		$\frac{\Lambda}{A}$
		05	OD2	ASP		49	16.74		11.7	20	2.433				.75	$\frac{\Lambda}{A}$
:	50	206		ASP		549	16.13		11.6	97	3.494		00	ļ	.40	
		207	<u> </u>	ASF		550	17.15	+	12.8	51	1.876		00		.12	
		208	<u>N</u>	SEF	<u>`</u>	 550	16.88		14.1	15	2.54		.00	-	0.61	- A
	<u> </u>	209	CA	SEF		550 550	18.04		15.1	06	2.31	9 1	.00	90	0.04	
		210	СВ	SE												

TABLE 2 (continued)

	1		TURE COOF AIN OF GRa						-	
	ATOM	ATOM TYPE	RESIDUE	#	x	Y	Z	occ	В	ATOM
	211	OG	SER	550	18.345	15.283	0.947	1.00	90.73	Α
	212	С	SER	550	15.564	14.714	2.123	1.00	89.18	Α
1	213	0	SER	550	15.241	15.849	2.479	1.00	89.03	Α
	214	N	SER	551	14.791	13.964	1.357	1.00	88.84	Α
	215	CA	SER	551	13.493	14.483	0.995	1.00	89.26	Α
	216	СВ	SER	551	12.878	13.704	-0.168	1.00	89.54	Α
	217	OG	SER	551	13.113	12.324	-0.037	1.00	91.73	Α
	218	C	SER	551	12.634	14.390	2.256	1.00	88.19	Α
	219	0	SER	551	11.603	15.030	2.341	1.00	88.72	Α
	220	Ν	VAL	552	13.058	13.610	3.250	1.00	87.55	Α
	221	CA	VAL	552	12.284	13.527	4.495	1.00	87.25	Α
	222	СВ	VAL	552	11.830	12.070	4.820	1.00	87.97	Α
	223	CG1	VAL	552	11.975	11.175	3.599	1.00	87.37	Α
	224	CG2	VAL	552	12.606	11.529	6.003	1.00	87.92	Α
	225	С	VAL	552	13.094	14.092	5.670	1.00	86.73	Α
	226	0	VAL	552	14.326	14.022	5.676	1.00	86.64	Α
	227	N	PRO	553	12.410	14.634	6.696	1.00	86.61	Α
	228	CD	PRO	553	10.956	14.803	6.833	1.00	86.60	Α
	229	CA	PRO	553	13.114	15.213	7.850	1.00	87.41	Α
	230	СВ	PRO	553	12.014	15.962	8.591	1.00	87.09	Α
	231	CG	PRO	553	10.807	15.185	8.288	1.00	87.29	Α
	232	С	PRO	553	13.975	14.371	8.786	1.00	87.77	Α
	233	0	PRO	553	13.570	13.322	9.289	1.00	88.30	Α
	234	N	ASP	554	15.171	14.905	9.019	1.00	87.98	Α
	235	CA	ASP	554	16.184	14.298	9.868	1.00	88.66	Α
	236	СВ	ASP	554	17.364	15.258	10.095	1.00	88.19	Α
	237	CG	ASP	554	17.900	15.894	8.820	1.00	88.24	Α
	238	OD1	ASP	554	17.439	15.598	7.695	1.00	88.21	Α
	239	OD2	ASP	554	18.817	16.722	8.975	1.00	88.62	Α
	240	С	ASP	554	15.693	13.903	11.254	1.00	89.18	Α
	241	0	ASP	554	14.574	14.205	11.670	1.00	89.35	Α
	242	N	SER	555	16.592	13.245	11.972	1.00	89.93	Α
	243	CA	SER	555	16.379	12.799	13.331	1.00	90.27	Α
	244	СВ	SER	555	15.277	11.750	13.419	1.00	90.19	Α
	245	OG	SER	555	15.647	10.558	12.754	1.00	89.00	Α

TABLE 2 (continued)

	ATOM BIND	IC STRUC	TURE COOR AIN OF GRa I	DINATE DA	ATA OBTAINE EX WITH FLU	D FROM X	RAY DIFFR	ACTION F	ROM THE L	IGAND MENT
	ATOM	ATOM TYPE	RESIDUE	#	X	Υ	Z	occ	В	ATOM
İ	246	С	SER	555	17.715	12.181	13.672	1.00	91.27	Α
	247	0	SER	555	18.445	11.746	12.780	1.00	90.85	Α
1	248	N	THR	556	18.041	12.149	14.950	1.00	92.81	Α
	249	CA	THR	556	19.317	11.597	15.357	1.00	94.66	Α
	250	СВ	THR	556	19.533	11.760	16.870	1.00	95.26	Α
	251	OG1	THR	556	20.067	13.062	17.143	1.00	95.78	Α
	252	CG2	THR	556	20.489	10.713	17.379	1.00	95.54	Α
	253	С	THR	556	19.557	10.141	14.977	1.00	95.12	Α
	254	0	THR	556	20.654	9.819	14.514	1.00	94.58	Α
	255	N	TRP	557	18.561	9.266	15.168	1.00	96.53	Α
	256	CA	TRP	557	18.725	7.837	14.850	1.00	97.64	Α
	257	СВ	TRP	557	17.556	6.977	15.403	1.00	100.93	Α
	258	CG	TRP	557	16.527	6.440	14.377	1.00	105.32	A
	259	CD2	TRP	557	16.552	5.170	13.683	1.00	106.95	Α
	260	CE2	TRP	557	15.425	5.135	12.826	1.00	107.45	Α
	261	CE3	TRP	557	17.409	4.057	13.709	1.00	107.83	Α
	262	CD1	TRP	557	15.417	7.096	13.913	1.00	106.74	A
	263	NE1	TRP	557	14.754	6.320	12.983	1.00	107.65	A
	264	CZ2	TRP	557	15.142	4.040	11.988	1.00	107.79	A
	265	CZ3	TRP	557	17.123	2.963	12.875	1.00	108.24	Α
	266	CH2	TRP	557	15.996	2.967	12.032	1.00	107.96	A
	267	С	TRP	557	18.884	7.612	13.355	1.00	96.37	Α
	268	0	TRP	557	19.697	6.803	12.916	1.00	96.21	A
	269	N	ARG	558	18.117	8.351	12.580	1.00	95.03	Α
	270	CA	ARG	558	18.164	8.243	11.139	1.00	93.86	Α
	271	СВ	ARG	558	17.054	9.068	10.566	1.00	93.78	Α
	272	CG	ARG	558	16.719	8.624	9.224	1.00	94.44	Α
	273	CD	ARG	558	15.975	9.679	8.550	1.00	94.58	A
	274	NE	ARG	558	16.253	9.641	7.134	1.00	95.72	Α
	275	CZ	ARG	558	16.025	10.672	6.351	1.00	96.79	Α
	276	NH1	ARG	558	15.513	11.775	6.873	1.00	98.36	A
	277	NH2	ARG	558	16.334	10.612	5.077	1.00	96.49	Α
	278	С	ARG	558	19.461	8.773	10.561	1.00	93.25	A
	279	0	ARG	558	19.887	8.406	9.467	1.00	93.99	Α_
	280	N	ILE	559	20.070	9.683	11.291	1.00	91.60	Α

TABLE 2 (continued)

			TURE COOF		ATA OBTAIN					
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	281	CA	ILE	559	21.280	10.294	10.812	1.00	89.71	Α
	282	СВ	ILE	559	21.492	11.590	11.494	1.00	88.91	Α
10	283	CG2	ILE	559	22.970	11.817	11.655	1.00	87.58	Α
	284	CG1	ILE	559	20.833	12.699	10.697	1.00	88.10	Α
	285	CD1	ILE	559	21.767	13.323	9.711	1.00	86.84	Α
15	286	C	ILE	559	22.514	9.481	11.063	1.00	89.28	Α
	287	0	ILE	559	23.505	9.565	10.329	1.00	88.46	Α
	288	Z	MET	560	22.486	8.742	12.149	1.00	88.75	Α
	289	CA	MET	560	23.651	7.976	12.426	1.00	88.01	Α
20	290	СВ	MET	560	24.089	8.152	13.864	1.00	87.86	Α
	291	CG	MET	560	22.989	8.134	14.830	1.00	87.31	Α
	292	SD	MET	560	23.689	8.279	16.446	1.00	90.24	Α
25	293	CE	MET	560	22.239	8.344	17.386	1.00	88.07	Α
	294	С	MET	560	23.471	6.542	12.062	1.00	87.94	Α
	295	0	MET	560	24.281	5.703	12.418	1.00	89.01	Α
	296	N	THR	561	22.401	6.202	11.378	1.00	87.34	Α
30	297	CA	THR	561	22.443	4.835	10.977	1.00	86.95	Α
	298	СВ	THR	561	21.093	4.175	10.912	1.00	87.31	Α
	299	OG1	THR	561	20.928	3.364	12.087	1.00	87.10	Α
35	300	CG2	THR	561	21.020	3.289	9.681	1.00	87.30	Α
	301	С	THR	561	23.112	4.874	9.612	1.00	86.05	Α
	302	0	THR	561	24.027	4.104	9.345	1.00	86.32	Α
40	303	N	THR	562	22.686	5.803	8.762	1.00	85.38	Α
40	304	CA	THR	562	23.254	5.931	7.431	1.00	85.67	Α
	305	СВ	THR	562	22.661	7.175	6.763	1.00	85.65	Α
	306	OG1	THR	562	21.230	7.079	6.820	1.00	85.77	Α
45	307	CG2	THR	562	23.098	7.282	5.312	1.00	85.39	Α
	308	С	THR	562	24.774	6.055	7.544	1.00	85.77	Α
	309	0	THR	562	25.539	5.598	6.665	1.00	86.58	Α
50	310	N	LEU	563	25.190	6.642	8.661	1.00	84.92	Α
50	311	CA	LEU	563	26.579	6.904	8.938	1.00	82.98	Α
	312	СВ	LEU	563	26.574	7.878	10.095	1.00	82.31	Α
	313	CG	LEU	563	27.148	9.271	9.752	1.00	81.13	Α
55	314	CD1	LEU	563	26.867	9.649	8.298	1.00	79.57	Α
	315	CD2	LEU	563	26.558	10.334	10.667	1.00	79.28	Α

TABLE 2 (continued)

	ATOMI BINDI	C STRUC	TURE COORI	DINATE DA	TA OBTAINE X WITH FLU	D FROM X- TICASONE	RAY DIFFRA PROPIONA	ACTION F	ROM THE LI	GAND MENT
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	316	С	LEU	563	27.298	5.591	9.252	1.00	82.41	Α
	317	0	LEU	563	28.455	5.334	8.868	1.00	82.20	A
10	318	N	ASN	564	26.593	4.751	9.975	1.00	81.88	A
	319	CA	ASN	564	27.155	3.478	10.274	1.00	81.91	Α
	320	СВ	ASN	564	26.246	2.805	11.249	1.00	81.34	A
4-	321	CG	ASN	564	26.562	3.217	12.637	1.00	81.57	A
15	322	OD1	ASN	564	26.978	4.352	12.886	1.00	81.79	Α
	323	ND2	ASN	564	26.387	2.297	13.559	1.00	82.16	Α
	324	С	ASN	564	27.242	2.755	8.952	1.00	81.96	A
20	325	0	ASN	564	28.304	2.329	8.539	1.00	82.86	Α
	326	N	MET	565	26.113	2.617	8.281	1.00	81.73	A
	327	CA	MET	565	26.088	1.995	6.978	1.00	81.37	A
25	328	СВ	MET	565	24.744	2.265	6.354	1.00	82.20	Α
23	329	CG	MET	565	23.649	1.696	7.190	1.00	83.63	A
	330	SD	MET	565	23.641	-0.044	6.893	1.00	87.40	Α
	331	CE -	MET	565	23.455	-0.696	8.521	1.00	85.88	A
30	332	С	MET	565	27.200	2.581	6.113	1.00	80.49	A
	333	0	MET	565	27.821	1.862	5.333	1.00	81.60	A
	334	N	LEU	566	27.450	3.884	6.224	1.00	78.75	A
35	335	CA	LEU	566	28.545	4.438	5.437	1.00	77.41	A -
	336	СВ	LEU	566	28.605	5.973	5.503	1.00	76.81	A
	337	CG	LEU	566	29.358	6.582	4.305	1.00	76.68	A
	338	CD1	LEU	566	29.976	7.929	4.627	1.00	75.40	A -
40	339	CD2	LEU	566	30.456	5.629	3.906	1.00	78.41	A -
	340	С	LEU	566	29.786	3.827	6.097	1.00	77.16	A
	341	0	LEU	566	30.806	3.581	5.453	1.00	75.61	A
45	342	N	GLY	567	29.669	3.566	7.396	1.00	77.62	A
	343	CA	GLY	567	30.752	2.961	8.154	1.00	77.48	A -
	344	С	GLY	567	31.245	1.671	7.527	1.00	78.30	A .
	345	0	GLY	567	32.411	1.585	7.145	1.00	78.23	A .
50	346	N	GLY	568	30.371	0.671	7.410	1.00	78.02	A .
	347	CA	GLY	568	30.776	-0.588	6.815	1.00	77.12	A A
	348	С	GLY	568	31.491	-0.437	5.479	1.00	76.89	A A
55	349	0	GLY	568	32.611	-0.917		1.00	78.89	A A
	350	N	ARG	569	30.860	0.234	4.525	1.00	75.25	A

TABLE 2 (continued)

	1		TURE COOR							
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	АТОМ
	351	CA	ARG	569	31.463	0.391	3.212	1.00	75.08	Α
	352	СВ	ARG	569	30.550	1.219	2.304	1.00	76.25	Α
10	353	CG	ARG	569	29.293	0.458	1.878	1.00	77.82	Α
	354	CD	ARG	569	28.574	1.141	0.734	1.00	78.35	Α
	355	NE	ARG	569	28.004	2.413	1.141	1.00	80.79	Α
15	356	CZ	ARG	569	28.127	3.537	0.439	1.00	82.46	Α
	357	NH1	ARG	569	28.808	3.533	-0.698	1.00	82.95	Α
	358	NH2	ARG	569	27.573	4.660	0.871	1.00	82.74	Α
	359	С	ARG	569	32.859	0.990	3.251	1.00	74.49	Α
20	360	0	ARG	569	33.778	0.496	2.595	1.00	74.53	Α
	361	N	GLN	570	33.016	2.056	4.028	1.00	73.65	Α
	362	CA	GLN	570	34.304	2.722	4.155	1.00	71.97	Α
25	363	СВ	GLN	570	34.160	3.957	5.032	1.00	72.89	Α
	364	CG	GLN	570	34.204	5.270	4.286	1.00	72.15	Α
	365	CD	GLN	570	33.699	6.384	5.147	1.00	71.88	Α
	366	OE1	GLN	570	33.539	7.513	4.692	1.00	72.77	Α
30	367	NE2	GLN	570	33.434	6.074	6.412	1.00	71.54	Α
	368	С	GLN	570	35.344	1.797	4.762	1.00	70.46	Α
	369	0	GLN	570	36.477	1.728	4.286	1.00	70.24	Α
35	370	N	VAL	571	34.959	1.100	5.824	1.00	68.82	Α
	371	CA	VAL	571	35.850	0.165	6.499	1.00	68.22	Α
	372	СВ	VAL	571	35.133	-0.539	7.669	1.00	68.99	Α
	373	CG1	VAL	571	35.836	-1.845	8.004	1.00	66.89	Α
40	374	CG2	VAL	571	35.114	0.371	8.886	1.00	69.13	Α
	375	С	VAL	571	36.358	-0.887	5.525	1.00	67.65	Α
	376	0	VAL	571	37.553	-1.197	5.492	1.00	67.31	Α
45	377	N	ILE	572	35.436	-1.443	4.742	1.00	67.57	Α
	378	CA	ILE	572	35.784	-2.451	3.747	1.00	67.90	Α
	379	СВ	ILE	572	34.517	-2.964	3.017	1.00	68.96	Α
	380	CG2	ILE	572	34.870	-3.480	1.617	1.00	68.69	Α
50	381	CG1	ILE	572	33.863	-4.063	3.870	1.00	69.67	Α
	382	CD1	ILE	572	32.347	-4.003	3.945	1.00	68.89	Α
	383	С	ILE	572	36.760	-1.832	2.768	1.00	67.12	A
55	384	0	ILE	572	37.777	-2.428	2.448	1.00	68.93	Α
ı	385	N	ALA	573	36.464	-0.630	2.308	1.00	66.15	A

TABLE 2 (continued)

					TABLE 2 (CO		DAY DIEER	CTION FR	OM THE LIC	AND
	ATOMI	C STRUC	TURE COORD IN OF GRa IN	INATE DAT	A OBTAINED WITH FLUT	ICASONE I	PROPIONA		IF2 FRAGM	ATOM
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ		
		CA	ALA	573	37.356	0.054	1.383	1.00	66.46	
10	386	СВ	ALA	573	36.840	1.478	1.108	1.00	65.79	A
	387	С	ALA	573	38.771	0.116	1.967	1.00	66.93	A
	388	0	ALA	573	39.766	-0.012	1.238	1.00	65.81	A
15	389	N	ALA	574	38.843	0.312	3.287	1.00	67.23	A
	390	CA	ALA	574	40.110	0.419	4.014	1.00	67.61	A
	391	СВ	ALA	574	39.846	0.728	5.486	1.00	67.60	A
	392	C	ALA	574	40.942	-0.847	3.894	1.00	67.98	A
	393	0	ALA	574	42.168	-0.789	3.797	1.00	67.69	A
20	394	N	VAL	575	40.265	-1.992	3.912	1.00	67.17	A
20	395	CA	VAL	575	40.937	-3.273	3.792	1.00	66.42	A
25	396	CB	VAL	575	39.946	-4.428	3.976	1.00	65.00	A
	397		VAL	575	40.670	-5.734	3.877	1.00	64.48	A
	398	CG1	VAL	575	39.261	-4.314	5.314	1.00	64.37	A
	399	CG2	VAL	575	41.645	-3.404	2.428	1.00	66.62	A .
30	400	- C	VAL	575	42.841	-3.686	2.380	1.00	66.81	A
	401	0	LYS	576	40.918	-3.183	1.329	1.00	66.28	A
	402	N	LYS	576	41.495	-3.282	-0.024	1.00	66.17	A
35	403	CA	LYS	576	40,403	-3.082	-1.076	1.00	67.84	A
	404	CB		576	40.917	-2.933	-2.521	1.00	70.31	A
	405	CG	LYS	576	39.757	-2.724	-3.500	1.00	72.81	A
	406	$-\!\!\!+\!\!\!\!-\!\!\!\!-$	LYS	576	38.675	-3.803	-3.306	1.00	74.86	A
40	407			576	37.379	-3.492	-4.002	1.00	76.42	A
	408			576	42,601	-2.249	-0.253	1.00	65.27	A
	409		LYS	576	43.366	-2.322	2 -1.221	1.00	66.35	A
	410	-+	LYS	577	42.652	-1.28	3 0.652	1.00	63.60	A
45	411		TRP	577	43.617	-0.18		1.00	60.50	A
	412			577	42.988	1.04	4 1.28	1.00	57.29	Α
	413			577		2.07	4 1.70	в 1.00	52.50	A
50	41					2.33	0 3.04	2 1.00	50.81	A
	41			577		3.36		1 1.00	50.82	2 A
30	41			577		1.76		3 1.00	49.4	5 A
	41			577	- 11010			1.00	51.3	4 A
	41			577				1.00	50.8	2 A
55	5 41			577		3.8		05 1.00	50.9	0 A
	42	20 C	Z2 TRP	577	40.011					

			CTURE COOF AIN OF GRα							
5	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
	421	CZ3	TRP	577	44.754	2.274	5.421	1.00	49.27	Α
	422	CH2	TRP	577	45.697	3.309	5.318	1.00	49.59	Α
10	423	С	TRP	577	44.842	-0.583	1.437	1.00	60.60	Α
	424	0	TRP	577	45.975	-0.357	1.018	1.00	59.49	Α
	425	N	ALA	578	44.591	-1.143	2.617	1.00	61.86	Α
15	426	CA	ALA	578	45.657	-1.570	3.507	1.00	63.00	Α
	427	СВ	ALA	578	45.073	-2.239	4.745	1.00	61.78	Α
	428	С	ALA	578	46.541	-2.546	2.759	1.00	64.13	Α
	429	0	ALA	578	47.762	-2.444	2.791	1.00	65.39	Α
20	430	N	LYS	579	45.901	-3.480	2.065	1.00	64.92	Α
	431	CA	LYS	579	46.608	-4.491	1.308	1.00	64.28	Α
	432	СВ	LYS	579	45.612	-5.540	0.792	1.00	64.80	Α
25	433	CG	LYS	579	44.584	-6.000	1.845	1.00	65.52	Α
	434	CD	LYS	579	43.721	-7.234	1.436	1.00	65.27	Α
	435	CE	LYS	579	43.635	-7.474	-0.085	1.00	65.83	Α
	436	NZ	LYS	579	42.891	-8.722	-0.466	1.00	66.54	Α
30	437	С	LYS	579	47.427	-3.916	0.150	1.00	64.31	Α
	438	0	LYS	579	48.215	-4.634	-0.447	1.00	66.40	Α
	439	N	ALA	580	47.268	-2.637	-0.180	1.00	63.18	Α
35	440	CA	ALA	580	48.057	-2.074	-1.278	1.00	63.23	Α
	441	СВ	ALA	580	47.194	-1.179	-2.159	1.00	63.30	Α
	442	С	ALA	580	49.260	-1.291	-0.765	1.00	63.73	Α
40	443	0	ALA	580	50.146	-0.917	-1.542	1.00	63.06	Α
40	444	Ν	ILE	581	49.273	-1.032	0.543	1.00	64.21	Α
	445	CA	ILE	581	50.377	-0.316	1.172	1.00	64.66	Α
	446	СВ	ILE	581	50.115	-0.041	2.670	1.00	63.87	Α
45	447	CG2	ILE	581	51.358	0.554	3.325	1.00	62.27	Α
	448	CG1	ILE	581	48.940	0.927	2.812	1.00	62.68	Α
	449	CD1	ILE	581	47.956	0.530	3.881	1.00	63.04	Α
50	450	C	ILE	581	51.552	-1.258	1.035	1.00	66.30	Α
50	451	0	ILE	581	51.620	-2.304	1.689	1.00	66.21	Α
	452	N	PRO	582	52.480	-0.923	0.142	1.00	67.08	Α
	453	CD	PRO	582	52.523	0.254	-0.741	1.00	67.75	Α
55	454	CA	PRO	582	53.637	-1.791	-0.037	1.00	68.22	Α
	455	СВ	PRO	582	54.645	-0.891	-0.770	1.00	68.28	Α

TABLE 2 (continued)

	ATOMIC STRUCTURE COORDINATE DATA OBTAINED FROM X-RAY DIFFRACTION FROM THE LIGAND BINDING DOMAIN OF GRα IN COMPLEX WITH FLUTICASONE PROPIONATE AND A TIF2 FRAGMENT										
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM	
	456	CG	PRO	582	53.981	0.516	-0.825	1.00	68.57	Α	
	457	С	PRO	582	54.154	-2.320	1.307	1.00	69.73	Α	
10	458	0	PRO	582	54.501	-1.537	2.192	1.00	70.65	Α	
Ì	459	N	GLY	583	54.167	-3.641	1.471	1.00	71.35	Α	
	460	CA	GLY	583	54.663	-4.223	2.709	1.00	72.71	Α	
15	461	С	GLY	583	53.642	-4.649	3.749	1.00	74.07	Α	
	462	0	GLY	583	53.910	-5.513	4.584	1.00	74.51	Α	
	463	N	PHE	584	52.461	-4.058	3.728	1.00	74.52	Α	
	464	CA	PHE	584	51.485	-4.449	4.716	1.00	74.52	Α	
20	465	СВ	PHE	584	50.236	-3.586	4.614	1.00	69.69	Α	
	466	CG	PHE	584	49.161	-3.994	5.563	1.00	64.19	Α	
	467	CD1	PHE	584	49.244	-3.660	6.910	1.00	62.21	Α	
25	468	CD2	PHE	584	48.078	-4.729	5.115	1.00	61.91	Α	
	469	CE1	PHE	584	48.268	-4.070	7.809	1.00	60.54	Α	
	470	CE2	PHE	584	47.091	-5.147	6.004	1.00	61.98	Α	
	471	CZ	PHE	584	47.180	-4.811	7.354	1.00	60.81	Α	
30	472	С	PHE	584	51.089	-5.915	4.565	1.00	77.99	Α	
	473	0	PHE	584	50.806	-6.590	5.566	1.00	78.31	Α	
	474	N	ARG	585	51.066	-6.429	3.337	1.00	80.71	Α	
35	475	CA	ARG	585	50.634	-7.812	3.215	1.00	82.98	Α	
	476	СВ	ARG	585	49.729	-8.017	1.993	1.00	83.84	Α	
	477	CG	ARG	585	50.239	-7.765	0.590	1.00	86.72	Α	
	478	CD	ARG	585	49.051	-8.111	-0.318	1.00	89.26	Α	
40	479	NE	ARG	585	48.267	-9.140	0.371	1.00	92.25	Α	
	480	CZ	ARG	585	47.235	-9.818	-0.119	1.00	93.54	A	
	481	NH1	ARG	585	46.797	-9.610	-1.359	1.00	94.06	Α	
45	482	NH2	ARG	585	46.652	-10.737	0.641	1.00	93.54	Α	
	483	С	ARG	585	51.662	-8.917	3.324	1.00	83.93	Α	
	484	0	ARG	585	51.379	-10.069	3.003	1.00	84.40	Α	
	485	N	ASN	586	52.845	-8.573	3.802	1.00	85.01	Α	
50	486	CA	ASN	586	53.871	-9.570	4.022	1.00	85.88	A	
	487	СВ	ASN	586	55.231	-9.061	3.564	1.00	86.01	Α	
	488	CG	ASN	586	55.328	-8.972	2.059	1.00	86.96	Α	
55	489	OD1	ASN	586	56.236	-8.339	1.522	1.00	88.16	Α	
	490	ND2	ASN	586	54.388	-9.613	1.363	1.00	86.48	A	

			TURE COOF							
5	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
	491	С	ASN	586	53.846	-9.776	5.518	1.00	86.24	Α
	492	0	ASN	586	54.624	-10.539	6.077	1.00	87.32	Α
10	493	N	LEU	587	52.932	-9.071	6.169	1.00	86.65	Α
	494	CA	LEU	587	52.792	-9.198	7.600	1.00	87.77	Α
	495	СВ	LEU	587	52.088	-7.970	8.188	1.00	87.74	Α
15	496	CG	LEU	587	52.935	-6.697	8.210	1.00	86.52	Α
	497	CD1	LEU	587	52.116	-5.534	8.724	1.00	86.30	Α
	498	CD2	LEU	587	54.145	-6.924	9.095	1.00	86.53	Α
	499	С	LEU	587	51.979	-10.450	7.850	1.00	88.42	Α
20	500	0	LEU	587	51.260	-10.930	6.968	1.00	87.25	Α
	501	N	HIS	588	52.108	-10.989	9.053	1.00	89.97	Α
	502	CA	HIS	588	51.378	-12.191	9.390	1.00	91.55	Α
25	503	СВ	HIS	588	51.642	-12.574	10.835	1.00	93.32	Α
	504	CG	HIS	588	51.068	-13.911	11.192	1.00	95.30	Α
	505	CD2	HIS	588	50.156	-14.245	12.137	1.00	95.82	Α
	506	ND1	HIS	588	51.401·	-15.047	10.527	1.00	96.00	Α
30	507	CE1	HIS	588	50.715	-16.075	11.050	1.00	96.43	Α
	508	NE2	HIS	588	49.967	-15.608	12.013	1.00	96.43	Α
	509	С	HIS	588	49.887	-11.952	9.184	1.00	91.17	Α
35	510	0	HIS	588	49.297	-11.142	9.893	1.00	91.33	Α
	511	N	LEU	589	49.284	-12.651	8.221	1.00	89.87	Α
	512	CA	LEU	589	47.860	-12.477	7.945	1.00	88.11	Α
40	513	СВ	LEU	589	47.284	-13.700	7.221	1.00	88.40	Α
40	514	CG	LEU	589	45.765	-13.669	6.969	1.00	88.28	Α
	515	CD1	LEU	589	45.400	-14.733	5.962	1.00	88.56	Α
	516	CD2	LEU	589	44.979	-13.904	8.259	1.00	88.39	Α
45	517	С	LEU	589	47.047	-12.209	9.208	1.00	87.37	Α
	518	0	LEU	589	45.969	-11.624	9.127	1.00	86.71	Α
	519	N	ASP	590	47.541	-12.642	10.363	1.00	86.54	Α
50	520	CA	ASP	590	46.833	-12.406	11.625	1.00	85.87	Α
50	521	СВ	ASP	590	47.294	-13.340	12.734	1.00	86.86	Α
	522	CG	ASP	590	46.610	-14.679	12.702	1.00	87.52	Α
	523	OD1	ASP	590	45.526	-14.809	12.090	1.00	87.78	A
55	524	OD2	ASP	590	47.167	-15.605	13.323	1.00	87.71	Α
	525	С	ASP	590	47.067	-11.002	12.120	1.00	84.92	Α

TABLE 2 (continued)

	ATOM: BIND	IC STRUC	TURE COOR AIN OF GRα I	DINATE DA	ATA OBTAINI EX WITH FLU	ED FROM X JTICASONE	-RAY DIFFE PROPION	RACTION F ATE AND A	ROM THE I	IGAND IMENT
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
	526	0	ASP	590	46.244	-10.458	12.849	1.00	84.94	Α
	527	N	ASP	591	48.230	-10.454	11.769	1.00	84.52	Α
10	528	CA	ASP	591	48.620	-9.091	12.130	1.00	83.62	Α
	529	СВ	ASP	591	50.107	-8.838	11.850	1.00	84.12	Α
	530	CG	ASP	591	51.022	-9.693	12.697	1.00	84.28	Α
15	531	OD1	ASP	591	50.727	-9.862	13.899	1.00	84.06	Α
•	532	OD2	ASP	591	52.042	-10.183	12.160	1.00	83.73	Α
	533	С	ASP	591	47.808	-8.185	11.229	1.00	82.14	Α
	534	0	ASP	591	47.205	-7.207	11.669	1.00	81.59	Α
20	535	N	GLN	592	47.815	-8.529	9.946	1.00	80.47	Α
	536	CA	GLN	592	47.067	-7.782	8.969	1.00	78.87	Α
	537	СВ	GLN	592	46.947	-8.594	7.690	1.00	77.24	Α
25	538	CG	GLN	592	48.091	-8.281	6.782	1.00	76.69	Α
	539	CD	GLN	592	48.068	-9.036	5.487	1.00	76.67	Α
	540	OE1	GLN	592	47.017	-9.193	4.855	1.00	76.15	Α
	541	NE2	GLN	592	49.241	-9.495	5.059	1.00	75.91	Α
30	542	С	GLN	592	45.706	-7.450	9.538	1.00	78.83	Α
	543	0	GLN	592	45.148	-6.390	9.245	1.00	79.67	Α
	544	N	MET	593	45.212	-8.347	10.393	1.00	78.36	Α
35	545	CA	MET	593	43.912	-8.231	11.058	1.00	78.31	Α
	546	СВ	MET	593	43.275	-9.615	11.244	1.00	79.96	Α
	547	CG	MET	593	42.329	-10.103	10.149	1.00	82.51	Α
	548	SD	MET	593	41.604	-11.744	10.579	1.00	86.38	Α
40	549	CE	MET	593	39.882	-11.316	10.995	1.00	84.03	Α
	550	С	MET	593	43.900	-7.547	12.428	1.00	77.60	Α
	551	0	MET	593	42.843	-7.081	12.859	1.00	77.34	Α
45	552	N	THR	594	45.020	-7.507	13.145	1.00	76.82	A
	553	CA	THR	594	44.984	-6.861	14.458	1.00	76.93	Α
	554	СВ	THR	594	46.140	-7.311	15.391	1.00	77.94	Α
	555	OG1	THR	594	46.650	-8.574	14.956	1.00	78.86	Α
50	556	CG2	THR	594	45.627	-7.462	16.828	1.00	77.65	Α
	557	С	THR	594	45.098	-5.365	14.225	1.00	76.19	Α
	558	0	THR	594	44.451	-4.551	14.896	1.00	75.57	Α
55	559	N	LEU	595	45.936	-5.021	13.252	1.00	74.76	Α
	560	CA	LEU	595	46.147	-3.637	12.882	1.00	72.91	Α

ATOM ATOM TYPE RESIDUE # X Y Z OCC B A 561 CB LEU 595 47.243 -3.554 11.804 1.00 70.46 562 CG LEU 595 48.681 -3.258 12.261 1.00 66.68 563 CD1 LEU 595 48.641 -3.596 13.722 1.00 66.68 564 CD2 LEU 595 49.676 -4.028 11.409 1.00 766.99 565 C LEU 595 44.428 -1.966 12.874 1.00 73.34 566 O LEU 596 42.837 -3.154 11.055 1.00 71.86 567 N LEU 596 42.837 -3.154 11.025 1.00 71.08 568 CA LEU 596 42.995 -3.546 8.584 1.00 66.63 570 CG LEU	ND VT
S62 CG	ГОМ
10	Α
Secondary Seco	Α
565 C LEU 595 44.820 -3.030 12.400 1.00 72.82 566 O LEU 595 44.428 -1.966 12.874 1.00 73.34 567 N LEU 596 44.103 -3.706 11.505 1.00 71.86 568 CA LEU 596 42.837 -3.154 11.025 1.00 71.08 569 CB LEU 596 42.307 -3.985 9.868 1.00 67.81 570 CG LEU 596 42.995 -3.546 8.584 1.00 65.63 571 CD1 LEU 596 42.625 -2.111 8.286 1.00 64.45 572 CD2 LEU 596 42.625 -2.111 8.286 1.00 64.45 573 C LEU 596 40.990 -2.023 12.083 1.00 72.89 574 O LEU 596 40.990 -2.023 12.061 1.00 72.60 575 N GLN 597 41.685 -3.940 13.014 1.00 75.30 576 CA GLN 597 40.688 -3.913 14.080 1.00 77.33 577 CB GLN 597 40.550 -5.284 14.700 1.00 79.16 578 CG GLN 597 40.995 -7.697 14.372 1.00 84.85 580 OE1 GLN 597 40.995 -7.697 14.372 1.00 84.85 581 NE2 GLN 597 40.996 -7.838 15.420 1.00 85.84 581 NE2 GLN 597 40.998 -7.838 15.420 1.00 85.84 581 NE2 GLN 597 40.998 -7.838 15.420 1.00 85.84 582 C GLN 597 40.239 -2.546 15.991 1.00 77.61 584 N TYR 598 42.335 -2.626 15.233 1.00 78.31 585 CA TYR 598 42.748 -1.717 16.265 1.00 79.61 586 CB TYR 598 44.192 -1.982 16.624 1.00 82.08	Α
15	Α
567 N LEU 596 44.103 -3.706 11.505 1.00 71.86 568 CA LEU 596 42.837 -3.154 11.025 1.00 71.08 569 CB LEU 596 42.307 -3.985 9.868 1.00 67.81 570 CG LEU 596 42.895 -3.546 8.584 1.00 65.63 571 CD1 LEU 596 42.589 -4.452 7.451 1.00 65.47 572 CD2 LEU 596 42.625 -2.111 8.286 1.00 64.45 573 C LEU 596 41.751 -2.993 12.083 1.00 72.89 574 O LEU 596 40.990 -2.023 12.061 1.00 72.60 575 N GLN 597 41.685 -3.940 13.014 1.00 75.30 576 CA GLN 597 40.688 -3.913 14.080 1.00 77.33 577 CB GLN 597 40.550 -5.284 14.700 1.00 79.16 578 CG GLN 597 39.994 -6.316 13.777 1.00 82.61 579 CD GLN 597 40.095 -7.697 14.372 1.00 84.85 580 OE1 GLN 597 40.908 -7.838 15.420 1.00 85.84 581 NE2 GLN 597 40.908 -7.838 15.420 1.00 85.44 582 C GLN 597 40.908 -7.838 15.420 1.00 85.44 583 O GLN 597 40.239 -2.546 15.991 1.00 77.62 584 N TYR 598 42.335 -2.626 15.233 1.00 78.31 585 CA TYR 598 42.748 -1.717 16.265 1.00 79.61 586 CB TYR 598 44.192 -1.982 16.624 1.00 82.08	Α
568 CA LEU 596 42.837 -3.154 11.025 1.00 71.08 569 CB LEU 596 42.307 -3.985 9.868 1.00 67.81 570 CG LEU 596 42.995 -3.546 8.584 1.00 65.63 571 CD1 LEU 596 42.589 -4.452 7.451 1.00 65.47 572 CD2 LEU 596 42.625 -2.111 8.286 1.00 64.45 573 C LEU 596 41.751 -2.993 12.083 1.00 72.89 574 O LEU 596 40.990 -2.023 12.061 1.00 72.60 575 N GLN 597 41.685 -3.940 13.014 1.00 75.30 576 CA GLN 597 40.688 -3.913 14.080 1.00 77.33 577 CB GLN 597 40.550 -5.284 14.700 1.00 79.16 578 CG GLN 597 39.994 -6.316 13.777 1.00 82.61 579 CD GLN 597 40.095 -7.697 14.372 1.00 84.85 580 OE1 GLN 597 39.459 -8.633 13.890 1.00 85.84 581 NE2 GLN 597 40.908 -7.838 15.420 1.00 85.44 582 C GLN 597 40.908 -7.838 15.420 1.00 85.44 583 O GLN 597 40.239 -2.546 15.991 1.00 77.11 584 N TYR 598 42.335 -2.626 15.233 1.00 78.31 585 CA TYR 598 42.748 -1.717 16.265 1.00 79.61 586 CB TYR 598 44.192 -1.982 16.624 1.00 82.08	Α
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20	Α
570 CG LEU 596 42.995 -3.546 8.584 1.00 65.63 571 CD1 LEU 596 42.589 -4.452 7.451 1.00 65.47 572 CD2 LEU 596 42.625 -2.111 8.286 1.00 64.45 573 C LEU 596 41.751 -2.993 12.083 1.00 72.89 574 O LEU 596 40.990 -2.023 12.061 1.00 72.60 575 N GLN 597 41.685 -3.940 13.014 1.00 75.30 576 CA GLN 597 40.688 -3.913 14.080 1.00 77.33 577 CB GLN 597 40.550 -5.284 14.700 1.00 79.16 578 CG GLN 597 40.095 -7.697 14.372 1.00 82.61 579 CD GLN 597 40.095 -7.697 14.372 1.00 84.85 580 OE1 GLN 597 39.459 -8.633 13.890 1.00 85.84 581 NE2 GLN 597 40.908 -7.838 15.420 1.00 85.44 582 C GLN 597 40.908 -2.959 15.177 1.00 77.62 583 O GLN 597 40.239 -2.546 15.991 1.00 77.11 584 N TYR 598 42.335 -2.626 15.233 1.00 78.31 585 CA TYR 598 42.748 -1.717 16.265 1.00 79.61 586 CB TYR 598 44.192 -1.982 16.624 1.00 82.08	Α
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25 573 C LEU 596 41.751 -2.993 12.083 1.00 72.89 574 O LEU 596 40.990 -2.023 12.061 1.00 72.60 575 N GLN 597 41.685 -3.940 13.014 1.00 75.30 576 CA GLN 597 40.688 -3.913 14.080 1.00 77.33 577 CB GLN 597 40.550 -5.284 14.700 1.00 79.16 578 CG GLN 597 39.994 -6.316 13.777 1.00 82.61 579 CD GLN 597 40.095 -7.697 14.372 1.00 84.85 35 580 OE1 GLN 597 40.095 -7.697 14.372 1.00 85.84 581 NE2 GLN 597 40.908 -7.838 15.420 1.00 85.44 582	Α
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30 576 CA GLN 597 40.688 -3.913 14.080 1.00 77.33 577 CB GLN 597 40.550 -5.284 14.700 1.00 79.16 578 CG GLN 597 39.994 -6.316 13.777 1.00 82.61 579 CD GLN 597 40.095 -7.697 14.372 1.00 84.85 580 OE1 GLN 597 39.459 -8.633 13.890 1.00 85.84 581 NE2 GLN 597 40.908 -7.838 15.420 1.00 85.44 582 C GLN 597 41.068 -2.959 15.177 1.00 77.62 583 O GLN 597 40.239 -2.546 15.991 1.00 77.11 584 N TYR 598 42.335 -2.626 15.233 1.00 78.31 585 CA	Α
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577 CB GLN 597 40.550 -5.284 14.700 1.00 79.16 578 CG GLN 597 39.994 -6.316 13.777 1.00 82.61 579 CD GLN 597 40.095 -7.697 14.372 1.00 84.85 580 OE1 GLN 597 39.459 -8.633 13.890 1.00 85.84 581 NE2 GLN 597 40.908 -7.838 15.420 1.00 85.44 582 C GLN 597 41.068 -2.959 15.177 1.00 77.62 583 O GLN 597 40.239 -2.546 15.991 1.00 77.11 584 N TYR 598 42.335 -2.626 15.233 1.00 78.31 585 CA TYR 598 42.748 -1.717 16.265 1.00 79.61 586 CB TYR 598 44.192 -1.982 16.624 1.00 82.08	Α
579 CD GLN 597 40.095 -7.697 14.372 1.00 84.85 580 OE1 GLN 597 39.459 -8.633 13.890 1.00 85.84 581 NE2 GLN 597 40.908 -7.838 15.420 1.00 85.44 582 C GLN 597 41.068 -2.959 15.177 1.00 77.62 583 O GLN 597 40.239 -2.546 15.991 1.00 77.11 584 N TYR 598 42.335 -2.626 15.233 1.00 78.31 585 CA TYR 598 42.748 -1.717 16.265 1.00 79.61 586 CB TYR 598 44.192 -1.982 16.624 1.00 82.08	Α
35 580 OE1 GLN 597 39.459 -8.633 13.890 1.00 85.84 581 NE2 GLN 597 40.908 -7.838 15.420 1.00 85.44 582 C GLN 597 41.068 -2.959 15.177 1.00 77.62 583 O GLN 597 40.239 -2.546 15.991 1.00 77.11 584 N TYR 598 42.335 -2.626 15.233 1.00 78.31 585 CA TYR 598 42.748 -1.717 16.265 1.00 79.61 586 CB TYR 598 44.192 -1.982 16.624 1.00 82.08	Α
581 NE2 GLN 597 40.908 -7.838 15.420 1.00 85.44 582 C GLN 597 41.068 -2.959 15.177 1.00 77.62 583 O GLN 597 40.239 -2.546 15.991 1.00 77.11 584 N TYR 598 42.335 -2.626 15.233 1.00 78.31 585 CA TYR 598 42.748 -1.717 16.265 1.00 79.61 586 CB TYR 598 44.192 -1.982 16.624 1.00 82.08	A
582 C GLN 597 41.068 -2.959 15.177 1.00 77.62 583 O GLN 597 40.239 -2.546 15.991 1.00 77.11 584 N TYR 598 42.335 -2.626 15.233 1.00 78.31 585 CA TYR 598 42.748 -1.717 16.265 1.00 79.61 586 CB TYR 598 44.192 -1.982 16.624 1.00 82.08	Α
583 O GLN 597 40.239 -2.546 15.991 1.00 77.11 584 N TYR 598 42.335 -2.626 15.233 1.00 78.31 585 CA TYR 598 42.748 -1.717 16.265 1.00 79.61 586 CB TYR 598 44.192 -1.982 16.624 1.00 82.08	A
40 584 N TYR 598 42.335 -2.626 15.233 1.00 78.31 585 CA TYR 598 42.748 -1.717 16.265 1.00 79.61 586 CB TYR 598 44.192 -1.982 16.624 1.00 82.08	A
584 N TYR 598 42.335 -2.626 15.233 1.00 78.31 585 CA TYR 598 42.748 -1.717 16.265 1.00 79.61 586 CB TYR 598 44.192 -1.982 16.624 1.00 82.08	Ā
586 CB TYR 598 44.192 -1.982 16.624 1.00 82.08	Α
	A
45 587 CG TYR 598 44.386 -3.073 17.637 1.00 84.90	A
	A
588 CD1 TYR 598 43.519 -4.168 17.717 1.00 85.68	A
589 CE1 TYR 598 43.735 -5.174 18.653 1.00 86.83	A
590 CD2 TYR 598 45.457 -3.014 18.504 1.00 86.14	A
50 591 CE2 TYR 598 45.684 -4.000 19.426 1.00 87.17	A
592 CZ TYR 598 44.831 -5.071 19.504 1.00 87.67	A
593 OH TYR 598 45.103 -6.015 20.464 1.00 89.91	A
55 594 C TYR 598 42.607 -0.302 15.767 1.00 78.74	A
595 O TYR 598 42.158 0.582 16.490 1.00 79.40	A

TABLE 2 (continued)

					TABLE 2 (d					
	ATOMI BINDI	C STRUC	TURE COORI	DINATE DA	ATA OBTAINE X WITH FLU	D FROM X- TICASONE	PROPIONA	TE AND A	ROM THE LI	GAND MENT
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
}	596	N	SER	599	42.949	-0.111	14.502	1.00	77.13	A
	597	CA	SER	599	42.945	1.215	13.915	1.00	75.64	Α
10	598	СВ	SER	599	44.271	1.425	13.187	1.00	76.43	Α
	599	OG	SER	599	44.381	0.534	12.088	1.00	77.42	A
	600	С	SER	599	41.816	1.623	12.978	1.00	73.69	A
-	601	0	SER	599	41.908	2.674	12.347	1.00	73.01	A
5	602	N	TRP	600	40.752	0.840	12.882	1.00	72.01	Α
	603	CA	TRP	600	39.696	1.228	11.962	1.00	70.02	A
	604	СВ	TRP	600	38.635	0.102	11.860	1.00	68.48	Α
20	605	CG	TRP	600	37.721	-0.054	13.036	1.00	67.90	A
	606	CD2	TRP	600	36.434	0.550	13.179	1.00	67.96	Α
	607	CE2	TRP	600	35.960	0.229	14.472	1.00	67.86	A
25	608	CE3	TRP	600	35.616	1.302	12.326	1.00	66.28	Α
25	609	CD1	TRP	600	37.984	-0.689	14.220	1.00	67.57	Α
	610	NE1	TRP	600	36.932	-0.516	15.094	1.00	67.79	Α
	611	CZ2	TRP	600	34.733	0.684	14.957	1.00	67.32	Α
30	612	CZ3	TRP	600	34.400	1.751	12.797	1.00	67.02	Α
	613	CH2	TRP	600	33.959	1.426	14.098	1.00	67.80	Α
	614	c	TRP	600	39.062	2.615	12.252	1.00	69.26	Α
35	615	0	TRP	600	38.704	3.343	11.321	1.00	68.40	Α
	616	N	MET	601	38.954	3.014	13.516	1.00	68.05	A
	617	CA	MET	601	38.354	4.317	13.800	1.00	67.13	Α
	618	СВ	MET	601	37.794	4.349	15.218	1.00	68.03	A
40	619	CG	MET	601	36.990	5.601	15.536	1.00	68.98	A
	620	SD	MET	601	35.331	5.636	14.826	1.00	69.62	A
	621	CE	MET	601	34.434	4.799	16.078	1.00	69.04	Α
45	622	С	MET	601	39.378	5.439	13.613	1.00	66.32	Α
	623	0	MET	601	39.055	6.524	13.120	1.00	65.08	Α
	624	N	SER	602	40.612	5.174	14.016	1.00	65.58	A
	625	CA	SER	602	41.668	6.157	13.858	1.00	64.76	A
50	626	СВ	SER	602	43.018	5.519	14.185	1.00	65.19	A
	627	OG	SER	602	44.010	6.500	14.419	1.00	66.76	A
	628	С	SER	602	41.610	6.568	12.387	1.00	63.83	A
55	629	0	SER	602	41.581	7.753	12.058	1.00	63.81	A
	630	N	LEU	603	41.546	5.564	11.512	1.00	63.22	A

TABLE 2 (continued)

	1		TURE COOP AIN OF GRa							
5	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
	631	CA	LEU	603	41.485	5.746	10.059	1.00	61.75	Α
	632	СВ	LEU	603	41.555	4.393	9.364	1.00	60.69	Α
10	633	CG	LEU	603	42.781	3.526	9.588	1.00	59.23	Α
	634	CD1	LEU	603	42.470	2.124	9.100	1.00	59.85	Α
	635	CD2	LEU	603	43.981	4.120	8.876	1.00	58.03	Α
5	636	С	LEU	603	40.227	6.451	9.553	1.00	61.71	Α
	637	0	LEU	603	40.308	7.366	8.740	1.00	60.08	Α
	638	Ν	MET	604	39.071	5.974	10.005	1.00	62.13	Α
	639	CA	MET	604	37.786	6.525	9.603	1.00	62.89	Α
20	640	СВ	MET	604	36.645	5.671	10.186	1.00	64.15	Α
	641	CG	MET	604	35.998	4.681	9.194	1.00	64.86	Α
	642	SD	MET	604	37.123	4.017	7.921	1.00	69.00	Α
25	643	CE	MET	604	36.833	5.103	6.468	1.00	67.97	Α
	644	C	MET	604	37.675	7.995	10.031	1.00	63.55	Α
	645	0	MET	604	37.309	8.854	9.228	1.00	64.56	Α
	646	N	ALA	605	38.025	8.294	11.283	1.00	63.18	Α
80	647	CA	ALA	605	37.959	9.674	11.761	1.00	61.86	Α
	648	СВ	ALA	605	38.021	9.719	13.291	1.00	61.77	Α
	649	С	ALA	605	39.052	10.556	11.155	1.00	61.28	Α
35	650	0	ALA	605	38.801	11.720	10.857	1.00	63.43	Α
	651	N	PHE	606	40.256	10.033	10.963	1.00	59.86	Α
	652	CA	PHE	606	41.308	10.852	10.368	1.00	59.36	Α
_	653	СВ	PHE	606	42.662	10.124	10.405	1.00	57.40	Α
0	654	CG	PHE	606	43.820	10.993	10.011	1.00	55.08	Α
	655	CD1	PHE	606	44.153	12.110	10.770	1.00	53.58	Α
	656	CD2	PHE	606	44.515	10.755	8.837	1.00	54.57	Α
5	657	CE1	PHE	606	45.162	12.979	10.367	1.00	53.02	Α
	658	CE2	PHE	606	45.537	11.627	8.423	1.00	54.27	Α
	659	CZ	PHE	606	45.852	12.741	9.187	1.00	52.34	Α
	660	С	PHE	606	40.945	11.236	8.916	1.00	60.57	Α
0	661	0	PHE	606	41.380	12.270	8.401	1.00	61.01	Α
	662	N	ALA	607	40.140	10.412	8.257	1.00	61.24	Α
	663	CA	ALA	607	39.734	10.706	6.890	1.00	60.99	Α
5	664	СВ	ALA	607	39.229	9.456	6.212	1.00	62.48	Α
	665	С	ALA	607	38.654	11.786	6.870	1.00	60.76	Α

TABLE 2 (continued)

	ATON BINE	MIC STRUC	CTURE COOI	RDINATE D	DATA OBTAIN	NED FROM :	X-RAY DIFF	RACTION IATE AND	FROM THE	LIGAND
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	666	0	ALA	607	38.758	12.748	6.107	1.00	60.48	A
	667	N	LEU	608	37.611	11.629	7.687	1.00	59.85	A
10	668	CA	LEU	608	36.561	12.644	7.738	1.00	60.59	A
	669	СВ	LEU	608	35.499	12.267	8.773	1.00	60.18	A
	670	CG	LEU	608	34.414	13.234	9.264	1.00	61.39	A
15	671	CD1	LEU	608	33.099	13.239	8.441	1.00	62.18	A
	672	CD2	LEU	608	34.119	12.747	10.668	1.00	60.55	A
	673	С	LEU	608	37.247	13.966	8.093	1.00	61.63	А
	674	0	LEU	608	37.031	14.972	7.416	1.00	61.28	Α
20	675	N	GLY	609	38.095	13.974	9.125	1.00	61.90	A
	676	CA	GLY	609	38.785	15.206	9.448	1.00	62.07	Α
	677	С	GLY	609	39.165	15.873	8.130	1.00	62.66	А
25	678	0	GLY	609	38.727	16.974	7.810	1.00	63.76	Α
	679	N	TRP	610	39.955	15.162	7.336	1.00	62.36	Α
	680	CA	TRP	610	40.419	15.637	6.040	1.00	60.84	Α
	681	СВ	TRP	610	41.207	14.528	5.364	1.00	57.02	Α
30	682	CG	TRP	610	41.865	14.975	4.130	1.00	52.45	Α
	683	CD2	TRP	610	43.040	15.777	4.054	1.00	50.06	Α
	684	CE2	TRP	610	43.335	15.952	2.684	1.00	48.16	Α
35	685	CE3	TRP	610	43.842	16.405	5.019	1.00	49.35	Α
	686	CD1	TRP	610	41.511	14.679	2.839	1.00	50.18	Α
	687	NE1	TRP	610	42.404	15.259	1.967	1.00	48.49	Α
40	688	CZ2	TRP	610	44.446	16.684	2.250	1.00	49.59	Α
40	689	CZ3	TRP	610	44.948	17.142	4.592	1.00	49.89	Α
	690	CH2	TRP	610	45.227	17.292	3.210	1.00	50.85	Α
	691	С	TRP	610	39.353	16.134	5.059	1.00	61.87	Α
45	692	0	TRP	610	39.468	17.219	4.504	1.00	62.11	Α
	693	N	ARG	611	38.337	15.321	4.808	1.00	63.21	Α
	694	CA	ARG	611	37.300	15.718	3.873	1.00	64.73	Α
50	695	СВ	ARG	611	36.250	14.611	3.737	1.00	65.43	Α
	696	CG	ARG	611	36.749	13.336	3.066	1.00	64.87	Α
į	697	CD	ARG	611	35.582	12.508	2.553	1.00	64.94	Α
	698	NE	ARG	611	34.683	12.093	3.628	1.00	66.13	Α
55	699	CZ	ARG	611	35.034	11.266	4.605	1.00	66.82	Α
	700	NH1	ARG	611	36.270	10.765	4.637	1.00	67.98	A

			TURE COOF							
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	701	NH2	ARG	611	34.147	10.908	5.532	1.00	64.34	Α
	702	С	ARG	611	36.646	16.998	4.379	1.00	66.30	Α
10	703	0	ARG	611	36.212	17.848	3.596	1.00	67.09	Α
	704	N	SER	612	36.604	17.134	5.696	1.00	67.15	Α
	705	CA	SER	612	36.007	18.294	6.336	1.00	67.98	А
15	706	СВ	SER	612	35.798	18.004	7.807	1.00	66.31	Α
	707	OG	SER	612	34.810	17.005	7.922	1.00	66.23	Α
	708	С	SER	612	36.830	19.548	6.183	1.00	69.48	Α
	709	0	SER	612	36.322	20.611	5.834	1.00	69.46	Α
20	710	N	TYR	613	38.107	19.429	6.473	1.00	71.12	Α
	711	CA	TYR	613	38.963	20.571	6.348	1.00	74.12	Α
	712	СВ	TYR	613	40.343	20.137	6.799	1.00	72.89	Α
25	713	CG	TYR	613	41.520	20.770	6.137	1.00	72.72	Α
	714	CD1	TYR	613	41.827	22.116	6.316	1.00	71.49	Α
	715	CE1	TYR	613	43.039	22.638	5.861	1.00	71.14	Α
	716	CD2	TYR	613	42.437	19.967	5.467	1.00	73.13	Α
30	717	CE2	TYR	613	43.636	20.472	5.009	1.00	73.12	Α
	718	CZ	TYR	613	43.941	21.799	5.214	1.00	71.86	Α
	719	ОН	TYR	613	45.173	22.250	4.807	1.00	71.29	Α
35	720	С	TYR	613	38.914	21.029	4.893	1.00	76.62	Α
	721	0	TYR	613	38.594	22.176	4.598	1.00	77.91	Α
	722	N	ARG	614	39.149	20.108	3.982	1.00	79.53	Α
	723	CA	ARG	614	39.169	20.433	2.563	1.00	82.42	Α
40	724	СВ	ARG	614	39.712	19.213	1.827	1.00	83.40	Α
	725	CG	ARG	614	41.000	18.718	2.460	1.00	84.51	Α
	726	CD	ARG	614	42.108	19.638	2.084	1.00	84.98	Α
45	727	NE	ARG	614	42.150	19.612	0.637	1.00	87.19	Α
	728	cz	ARG	614	43.238	19.787	-0.094	1.00	89.15	Α
	729	NH1	ARG	614	44.414	20.020	0.490	1.00	89.01	Α
	730	NH2	ARG	614	43.150	19.678	-1.414	1.00	89.92	Α
50	731	С	ARG	614	37.866	20.913	1.904	1.00	83.98	A
	732	0	ARG	614	37.896	21.448	0.794	1.00	83.82	Α
	733	N	GLN	615	36.731	20.766	2.586	1.00	85.72	Α
55	734	CA	GLN	615	35.446	21.126	1.990	1.00	87.80	Α
	735	СВ	GLN	615	34.641	19.833	1.811	1.00	88.02	Α

TABLE 2 (continued)

	ATOMI	C STRUCT	TURE COORD IN OF GRα IN	COMPLE)	WITH FLUT	ICASONE F	PROPIONAT	E AND A	IF2 FRAGM	MENT
}	ATOM	ATOM	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
		TYPE	CLN	615	33.302	19.930	1.105	1.00	89.29	A
	736	CG	GLN	615	32.464	18.668	1.302	1.00	90.00	A
	737	CD	GLN	615	31,230	18.697	1.191	1.00	89.30	Α
0	738	OE1	GLN	615	33.131	17.549	1.598	1.00	90.17	A
	739	NE2	GLN GLN	615	34.621	22.153	2.763	1.00	89.16	A
	740	C	GLN	615	33.419	22.280	2.541	1.00	89.38	. A
15	741	0		616	35.259	22.894	3.663	1.00	90.80	A
	742	N	SER	616	34.543	23.885	4.457	1.00	92.99	A
	743	CA	SER	616	33.235	23.296	5.016	1.00	92.42	A
	744	СВ	SER	616	33.445	22.457	6.143	1.00	90.39	Α
20	745	OG	SER	616	35.431	24.338	5.603	1.00	95.02	Α
	746	C	SER	616	34.953	24.572	6.711	1.00	95.57	Α
	747	0	SER	617	36.723	24.445	5.333	1.00	96.67	Α
25	748	N	SER	617	37.700	24.867	6.337	1.00	98.08	Α
	749	CA	SER		37.677	26.400	6.509	1.00	98.21	Α
	750	СВ	SER	617	37.701	27.099	5.276	1.00	98.06	Α
	751	OG	SER	617	37.510	24.244	7.730	1.00	98.69	A
30	752	C	SER	617	37.895	24.856	8.724	1.00	99.28	Α
	753	0	SER	617	36.912	23.060	7.831	1.00	98.75	Α
	754	N	ALA	618	36.743	22.448	9.156	1.00	99.29	Α
35	755	CA	ALA	618	38.080	22.494	9.915	1.00	98.81	Α
	756	СВ	ALA	618		23.069	10.026	1.00	99.45	Α
	757	С	ALA	618	35.631	23.014	14.004	1.00	99.79	Α
	758	0	ALA	618	35.706	23.645			98.51	Α
40	759	N	ASN	619	34.616	24.275		+	97.30	А
	760	CA		619	33.466	25.407		+	97.72	А
	761	СВ		619	32.907	26.254		1	97.81	Α
45	762	CG		619	33.993	26.909			97.90	A
	763	OD	1 ASN	619	33.766	26.254		+	97.55	, A
	764	ND:	2 ASN	619	35.175	23.21			96.23	3 A
	76	5 C	ASN	619	32.370	23.12				9 A
50	76	6 0	ASN	619		22.43		-		3 A
	76	7 N	LEU	620		21.36				4 A
	76	8 C/	A LEU	620		21.54		<u> </u>		8 A
55	76	9 CI	3 LEU	620					- 	0 A
	77	0 0	G LEU	620	29.802	22.91	7.40			

TABLE 2 (continued)

	II.		TURE COOR AIN OF GRa I							I
5	ATOM	ATOM TYPE	RESIDUE	#	x	Y	Z	occ	В	ATOM
	771	CD1	LEU	620	28.936	22.943	6.226	1.00	92.07	Α
	772	CD2	LEU	620	28.939	23.220	8.704	1.00	92.73	Α
10	773	С	LEU	620	31.983	19.998	9.044	1.00	91.47	· A
	774	0	LEU	620	33.207	19.941	8.910	1.00	91.02	Α
	775	N	LEU	621	31.229	18.918	9.256	1.00	89.67	Α
15	776	CA	LEU	621	31.757	17.547	9.256	1.00	87.87	Α
	777	СВ	LEU	621	31.206	16.722	10.430	1.00	87.01	Α
	778	CG	LEU	621	31.886	16.853	11.791	1.00	86.70	Α
	779	CD1	LEU	621	31.304	15.830	12.766	1.00	86.15	Α
20	780	CD2	LEU	621	33.378	16.639	11.623	1.00	85.78	Α
	781	С	LEU	621	31.230	16.961	7.962	1.00	86.90	Α
	782	0	LEU	621	30.029	16.809	7.805	1.00	86.82	Α
25	783	N	CYS	622	32.112	16.619	7.032	1.00	85.92	Α
	784	CA	CYS	622	31.639	16.104	5.753	1.00	85.59	Α
	785	СВ	CYS	622	32.449	16.744	4.629	1.00	85.97	Α
	786	SG	CYS	622	32.515	18.552	4.739	1.00	88.73	Α
30	787	С	CYS	622	31.669	14.596	5.612	1.00	84.70	Α
	788	0	CYS	622	32.503	14.057	4.892	1.00	85.08	Α
	789	N	PHE	623	30.751	13.902	6.264	1.00	83.91	Α
35	790	CA	PHE	623	30.761	12.459	6.154	1.00	83.55	Α
	791	СВ	PHE	623	29.637	11.864	7.015	1.00	81.77	Α
	792	CG	PHE	623	29.897	11.980	8.515	1.00	80.87	Α
40	793	CD1	PHE	623	29.644	13.162	9.210	1.00	80.74	Α
40	794	CD2	PHE	623	30.380	10.890	9.235	1.00	80.88	Α
	795	CE1	PHE	623	29.870	13.256	10.601	1.00	80.30	Α
	796	CE2	PHE	623	30.612	10.979	10.615	1.00	80.14	Α
45	797	CZ	PHE	623	30.350	12.159	11.297	1.00	80.61	Α
	798	С	PHE	623	30.754	11.990	4.674	1.00	84.77	Α
	799	0	PHE	623	31.382	10.986	4.343	1.00	85.60	Α
50	800	N	ALA	624	30.089	12.730	3.790	1.00	85.86	Α
30	801	CA	ALA	624	30.081	12.431	2.348	1.00	87.32	Α
	802	СВ	ALA	624	28.888	11.576	1.985	1.00	86.51	Α
	803	С	ALA	624	29.974	13.821	1.713	1.00	88.99	Α
55	804	0	ALA	624	29.353	14.699	2.307	1.00	89.36	Α
	805	N	PRO	625	30.590	14.071	0.532	1.00	90.51	Α

TABLE 2 (continued)

	ATOMI BINDI	C STRUC	TURE COORD	NOMPLE	TA OBTAINE X WITH FLU	D FROM X- TICASONE	PROPIONAT	TE AND A		
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
}	806	CD	PRO	625	31.601	13.375	-0.288	1.00	91.20	A
}	807	CA	PRO	625	30.404	15.451	0.055	1.00	91.39	A
10	808	СВ	PRO	625	31.248	15.492	-1.223	1.00	91.01	A
	809	CG	PRO	625	32.366	14.540	-0.909	1.00	90.40	A
	810	С	PRO	625	28.929	15.814	-0.180	1.00	91.81	A
	811	0	PRO	625	28.590	16.979	-0.420	1.00	91.56	A
15	812	N	ASP	626	28.071	14.797	-0.077	1.00	91.89	A
	813	CA	ASP	626	26.623	14.915	-0.260	1.00	91.87	A
	814	СВ	ASP	626	26.103	13.750	-1.069	1.00	93.67	A
20	815	CG	ASP	626	26.079	12.476	-0.245	1.00	95.47	A
	816	OD1	ASP	626	27.157	12.118	0.255	1.00	97.06	A
	817	OD2	ASP	626	25.008	11.853	-0.069	1.00	95.89	A
	818	C	ASP	626	25.877	14.820	1.071	1.00	91.25	Α
25		0	ASP	626	24.658	14.974	1.104	1.00	92.29	A
	819	N	LEU	627	26.581	14.500	2.148	1.00	90.06	Α
		CA	LEU	627	25.926	14.362	3.447	1.00	88.48	Α
30	821	СВ	LEU	627	25.801	12.876	3.806	1.00	86.93	Α
	822	CG	LEU	627	25.003	12.516	5.059	1.00	86.55	Α
	823	CD1	LEU	627	25.598	13.155	6.301	1.00	86.49	Α
	824		LEU	627	23.588	12.986	4.868	1.00	86.46	Α
35	825	CD2	LEU	627	26.721	15.104	4.520	1.00	87.74	Α
	826		LEU	627	27.639	14.539	5.114	1.00	88.20	Α
	827	0	ILE	628	26.352	16.356	4.776	1.00	86.51	А
40	828	CA	ILE	628	27.046	17.208	5.752	1.00	84.81	Α
	829		ILE	628	27.296	18.638	5.173	1.00	83.92	Α
	830	CB	ILE	628	27.963	19.516	6.212	1.00	83.50	Α
	831	CG2	ILE	628	28.228	18.585	 	1.00	83.63	Α
45	832	CG1		628	27.752	17.707	2.855	1.00	83.66	Α
	833	CD1	ILE	628	26.327	17.405		1.00	84.24	Α
	834	C	ILE	628	25.099	17.397		1.00	84.45	Α
50	835	0	ILE	629	27.097	17.566		1.00	83.48	А
	836			629	26.461	17.844		1.00	82.78	Α
	837		ILE	629	26,999	17.048		1.00	81.63	Α
	838		ILE	629	26.599	17.734		1.00	79.75	Α
55	839			629	26.470	15.604		1.00	82.25	Α

			TURE COOP AIN OF GRa							
5	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
	841	CD1	ILE	629	25.110	15.415	9.861	1.00	81.23	Α
	842	С	ILE	629	26.697	19.304	9.659	1.00	83.83	Α
10	843	0	ILE	629	27.797	19.755	9.985	1.00	83.14	Α
	844	N	ASN	630	25.607	20.021	9.437	1.00	85.68	Α
	845	CA	ASN	630	25.502	21.453	9.547	1.00	86.72	Α
15	846	СВ	ASN	630	24.607	21.962	8.456	1.00	86.20	Α
	847	CG	ASN	630	23.272	21.261	8.477	1.00	85.18	Α
	848	OD1	ASN	630	22.946	20.552	9.426	1.00	84.86	Α
	849	ND2	ASN	630	22.492	21.447	7.437	1.00	84.97	Α
20	850	С	ASN	630	24.868	21.858	10.857	1.00	88.22	Α
	851	0	ASN	630	24.323	21.039	11.613	1.00	87.63	Α
	852	N	GLU	631	24.872	23.179	11.018	1.00	90.31	Α
25	853	CA	GLU	631	24.398	23.891	12.187	1.00	91.48	Α
	854	СВ	GLU	631	24.382	25.385	11.921	1.00	93.00	Α
	855	CG	GLU	631	23.793	26.104	13.115	1.00	96.45	Α
	856	CD	GLU	631	23.464	27.561	12.874	1.00	98.56	Α
30	857	OE1	GLU	631	22.255	27.889	12.773	1.00	98.65	Α
	858	OE2	GLU	631	24.414	28.374	12.797	1.00	99.30	Α
	859	С	GLU	631	23.060	23.541	12.736	1.00	91.50	Α
35	860	0	GLU	631	22.827	23.560	13.943	1.00	91.38	Α
	861	N	GLN	632	22.164	23.270	11.820	1.00	91.77	Α
	862	CA	GLN	632	20.832	22.950	12.183	1.00	92.07	Α
	863	СВ	GLN	632	19.965	23.198	10.992	1.00	93.94	Α
40	864	CG	GLN	632	19.286	24.573	10.860	1.00	97.21	Α
	865	CD	GLN	632	19.518	25.646	11.945	1.00	98.67	A
	866	OE1	GLN	632	19.142	25.505	13.107	1.00	99.98	Α
45	867	NE2	GLN	632	20.095	26.764	11.526	1.00	99.13	Α
	868	С	GLN	632	20.837	21.487	12.542	1.00	90.67	Α
	869	0	GLN	632	20.097	21.044	13.410	1.00	91.24	Α
50	870	N	ARG	633	21.686	20.733	11.873	1.00	89.18	Α
50	871	CA	ARG	633	21.775	19.313	12.161	1.00	87.17	Α
	872	СВ	ARG	633	22.453	18.598	11.021	1.00	86.70	Α
	873	CG	ARG	633	21.431	17.895	10.184	1.00	84.53	Α
55	874	CD	ARG	633	22.020	17.447	8.896	1.00	83.94	Α
	875	NE	ARG	633	21.077	16.992	7.877	1.00	82.31	Α

TABLE 2 (continued)

				COORDIN		TABL	E 2 (CO	FRON	d) // X-R/	Y DIF	FRAC	CTION	FROM	THEL	IGAND MENT	
Γ	ATOM	STRU	CTURE	COORDIN	ATE DA	X WIT	H FLUT	ICASO	NE PI	ROPIC	ONATE	E AND	A HF2	B T	ATO	u
	BINDI	NG DUN	IAIN O	SIDUE	#		<	Υ		Z		OCC				
5	MOTA	ATOM TYPE	nec	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				16.77	-	6.63	7	1.00	1	30.78	Α	
+	876	CZ	A	RG	633	21.4		16.77		6.37		1.00		81.48	Α	
ŀ	877	NH1	1	RG	633	22.7		16.3		5.68		1.00		78.84	A	
10	878	NH2	1	ARG	633	20.6	+	19.0		13.4	03	1.00		86.42	A	
į	879	C	1	ARG	633	↓	586	18.1		14.1		1.00		86.50	1	
	880	0		ARG	633	1	417	19.9	+	13.5		1.00		85.41	/	1
	881	N		MET	634	┼	.508	19.9	+	14.6	576	1.00		85.16	1	
15	882	CA	1	MET	634	4-	.422	21.	+	14.5	+	1.00	5	83.80		A
	883	СВ		MET	634		.333		722	15.	242	1.0	0	83.67		A
	884	CG		MET	634		5.532		971	14.	989	1.0	0	83.03		<u>A</u>
20	885	SE		MET	634		3.813	_	.959		223	1.0	0	81.55	1	<u>A</u>
	886	CE		MET	634	خبل	8.456		.066		.958	1.0	00	85.63	1	A
	887	-	1	MET	634		3.750		.776	17	.058	1.0	00	85.09	-	Α
	888	-	,	MET	634	$-\!\!\!\!+\!\!\!\!-$	4.225).597	-	5.781	1.	00	87.2	3	Α
25	889		1	THR	635		22.601		0.899	16	5.896	1.	00	88.5	2	
	890	-+	A	THR	635		21.881		2.196		6.587	1.	.00	87.9	4	Α
	89		В	THR	635		21.350		2.470		7.380	1	.00	89.2	21	Α
30	89		G1	THR	635		20.215		2.182	┼	5.195		.00	88.	12	Α
	89	-+-	G2	THR	635	-	20.985		9.841	+-,	7.202		.00	89.	56	Α
	89		c	THR	635	5	20.853		20.116	+-	7.985	-	1.00	90.	59	A
	80		0	THR	63	5	19.970		18.633	_	16.625	5	1.00	89.	94	A
35		96	N	LEU	63	6	20.892		17.719		17.107		1.00	90	.42	A
		97	CA	LEU	63	6	19.861		16.49		16.23		1.00	91	.24	A
		98	СВ	LEU	63	6	19.555		16.81		14.82	6	1.00	92	.26	Α
40	,	99	CG	LEU	63	36	19.136	-+	17.38		14.23		1.00	92	2.82	A
		100	CD1	LEU		36	20.324	-+	15.62		14.01		1.00	92	2.86	A
	 	901	CD2	LEU	6	36	18.739		17.2		18.4		1.00	9	0.58	A
	-	902	С	LEU	6	36	20.40		17.5	-+	18.80		1.00	9	0.48	A
4	" <u> </u>	903	0	LEU	6	36	21.54		16.4		19.1		1.00	9	0.59	A
	-	904	N	PRO		37	19.59		15.8		18.7		1.00	9	0.32	A
	-	905	CD	PRO		337	18.30		15.9	+	20.3		1.00	9	1.07	A
	50	906	CA	PRO		637	20.01		14.8		20.6		1.00		90.73	A
	-	907	СВ	PRC		637	19.09			305	20.0		1.00		90.37	A
	-	908	CG	PRO		637	17.8			600		619	1.00	5	91.70	A
	55	909	С	PRO		637	21.4			393		.827	1.0	0	93.14	A
	- F	910	0	PRO		637	22.3	549 	10.		L					

TABLE 2 (continued)

			TURE COOF							
5	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
	911	N	CYS	638	21.589	14.316	20.539	1.00	91.74	Α
	912	CA	CYS	638	22.857	13.860	20.917	1.00	91.86	Α
10	913	СВ	CYS	638	22.672	12.435	21.382	1.00	91.44	· A
	914	SG	CYS	638	22.362	12.383	23.136	1.00	92.33	Α
	915	С	CYS	638	24.004	14.008	19.970	1.00	91.43	Α
15	916	0	CYS	638	24.977	13.305	20.113	1.00	92.21	Α
	917	Z	MET	639	23.955	14.977	19.074	1.00	90.28	Α
	918	CA	MET	639	25.003	15.076	18.076	1.00	89.06	Α
	919	СВ	MET	639	24.474	15.815	16.875	1.00	89.67	Α
20	920	CG	MET	639	25.057	15.363	15.576	1.00	89.96	Α
	921	SD	MET	639	23.803	14.471	14.669	1.00	91.78	Α
	922	CE	MET	639	24.470	12.873	14.665	1.00	91.55	Α
25	923	С	MET	639	26.280	15.742	18.432	1.00	88.30	Α
	924	0	MET	639	27.390	15.236	18.249	1.00	88.54	Α
	925	N	TYR	640	26.089	16.955	18.882	1.00	87.19	Α
	926	CA	TYR	640	27.202	17.757	19.177	1.00	85.96	Α
30	927	СВ	TYR	640	26.724	19.072	19.707	1.00	83.25	Α
	928	CG	TYR	640	27.903	19.924	19.724	1.00	81.17	Α
	929	CD1	TYR	640	28.386	20.449	18.536	1.00	80.77	Α
35	930	CE1	TYR	640	29.621	21.033	18.475	1.00	79.85	Α
	931	CD2	TYR	640	28.685	20.016	20.866	1.00	79.86	Α
	932	CE2	TYR	640	29.923	20.591	20.822	1.00	79.30	Α
40	933	CZ	TYR	640	30.388	21.095	19.622	1.00	79.94	Α
40	934	ОН	TYR	640	31.638	21.656	19.564	1.00	79.45	Α
	935	С	TYR	640	28.230	17.187	20.119	1.00	86.91	Α
	936	0	TYR	640	29.423	17.431	19.984	1.00	87.67	Α
45	937	N	ASP	641	27.773	16.429	21.093	1.00	88.23	Α
	938	CA	ASP	641	28.693	15.872	22.061	1.00	89.33	Α
į	939	СВ	ASP	641	27.933	15.217	23.184	1.00	91.25	Α
50	940	CG	ASP	641	27.827	16.076	24.402	1.00	92.97	Α
50	941	OD1	ASP	641	28.852	16.625	24.886	1.00	93.24	Α
	942	OD2	ASP	641	26.684	16.169	24.889	1.00	93.94	Α
	943	С	ASP	641	29.574	14.812	21.474	1.00	89.35	Α
55	944	0	ASP	641	30.653	14.546	21.979	1.00	89.26	Α
	945	N	GLN	642	29.045	14.178	20.434	1.00	89.50	Α

TABLE 2 (continued)

			•	TABLE 2 (co	ontinued)		OTION FR	OM THE LIG	AND
ATOMIC	STRUCT	TURE COORD IN OF GRα IN	INATE DAT	A OBTAINED WITH FLUT	FROM X-F	RAY DIFFRA PROPIONAT	E AND A T	IF2 FRAGM	ENT
TOM	MOTA	RESIDUE	#	Х	Y	Z	occ	В	
	CA	GLN	642	29.666	13.099	19.688	1.00	89.13	
946		GLN	642	28.526	12.237	19.044	1.00	90.27	A
947	CB	GLN	642	27.962	10.822	19.594	1.00	91.79	
948	CD	GLN	642	26.681	10.417	18.792	1.00	93.88	A
949	OE1	GLN	642	26.221	9.266	18.765	1.00	94.69	A
950	NE2	GLN	642	26.098	11.421	18.152	1.00	94.27	A .
951	C	GLN	642	30.568	13.716	18.613	1.00	88.31	A
952		GLN	642	31.765	13.430	18.522	1.00	87.84	
953	0	CYS	643	29.961	14.599	17.822	1.00	87.09	A
954	CA	CYS	643	30.607	15.296	16.691	1.00	86.13	A
955		CYS	643	29.579	16.175	15.965	1.00	85.59	A
956	CB	CYS	643	28.434	15.246	14.937	1.00	86.84	A
957	SG	CYS	643	31.835	16.167	16.978	1.00	85.11	A
958	C	CYS	643	32.634	16.451	16.086	1.00	85.48	A
959	0	LYS	644	31.978	16.570	18.224	1.00	83.90	A .
960	N OA	LYS	644	33.050	17.445	18.689	1.00	82.99	A .
961	CA	LYS	644	32.847	17.650	20.164	1.00	83.94	A
962	CB	LYS	644	33.903	18.465	20.828	1.00	84.87	A .
963	CG	LYS	644	33.751	18.350	22.330	1.00	85.64	A
964	CD	LYS	644	32.292	18.434	22.762	1.00	86.34	A
965	CE	LYS	644	32.193	18.431	24.245	1.00	85.91	A
966	NZ		644	34.451	16.938	18.505	1.00	82.08	A
967	C	LYS	644	35.424	17.654	18.224	1.00	81.31	A
968	- 0	LYS	645	34.526	15.664	18.775	1.00	81.67	A
969		HIS	645	35.747	14.987	18.710	1.00	81.48	A
970			645	35.510	13.663	3 19.317	1.00	83.43	A
971			645	35.703	13.77	6 20.783	1.00	85.32	A
972			645	36.806	14.27	9 21.392	1.00	86.28	
973			645	34.689	13.78		1.00	86.22	2 A
974			645	- 105	14.31	9 22.824	1.00	87.26	5 A
975					14.61	6 22.663	3 1.00	87.68	3 A
970					14.96	7 17.37	2 1.00	80.40) A
97							1 1.00	79.4	9 A
97							0 1.00	79.6	8 A
97				25.047			5 1.00	78.1	1 A
	97 97 97	976 NE 977 C 978 C 979 N	976 NE2 HIS 977 C HIS 978 O HIS 979 N MET	976 NE2 HIS 645 977 C HIS 645 978 O HIS 645 979 N MET 646	975 CE1 HIS 645 36.392 976 NE2 HIS 645 36.286 977 C HIS 645 36.286 978 O HIS 645 37.442 979 N MET 646 35.403	975 CE1 FIIS 645 36.392 14.61 976 NE2 HIS 645 36.286 14.96 977 C HIS 645 37.442 15.28 978 O HIS 646 35.403 14.65	975 CE1 HIS 645 36.392 14.616 22.663 976 NE2 HIS 645 36.286 14.967 17.373 977 C HIS 645 36.286 14.967 17.373 978 O HIS 645 37.442 15.286 17.13 979 N MET 646 35.403 14.670 16.46	975 CET FIIS 645 36.392 14.616 22.663 1.00 976 NE2 HIS 645 36.286 14.967 17.372 1.00 977 C HIS 645 37.442 15.286 17.131 1.00 978 O HIS 646 35.403 14.670 16.460 1.00 979 N MET 646 35.847 14.655 15.125 1.00	975 CET FIIS 645 36.392 14.616 22.663 1.00 87.66 976 NE2 HIS 645 36.286 14.967 17.372 1.00 80.40 977 C HIS 645 37.442 15.286 17.131 1.00 79.49 978 O HIS 646 35.403 14.670 16.460 1.00 79.6 979 N MET 646 35.847 14.655 15.125 1.00 78.1

	1		TURE COOF						_	
5	ATOM	ATOM TYPE	RESIDUE	#	×	Y	Z	occ	В	ATOM
	981	СВ	MET	646	34.794	14.004	14.287	1.00	78.69	Α
	982	CG	MET	646	34.894	12.531	14.452	1.00	78.50	Α
10	983	SD	MET	646	33.445	11.861	15.209	1.00	80.06	Α
	984	CE	MET	646	32.393	11.981	13.892	1.00	82.37	Α
	985	С	MET	646	36.199	16.020	14.595	1.00	76.66	Α
15	986	0	MET	646	37.186	16.151	13.878	1.00	76.52	Α
	987	N	LEU	647	35.414	17.042	14.944	1.00	75.12	Α
	988	CA	LEU	647	35.692	18.380	14.416	1.00	74.23	Α
	989	СВ	LEU	647	34.616	19.401	14.824	1.00	73.81	Α
20	990	CG	LEU	647	33.384	19.749	13.952	1.00	72.95	Α
	991	CD1	LEU	647	32.473	20.475	14.890	1.00	73.14	Α
	992	CD2	LEU	647	33.651	20.650	12.712	1.00	74.46	Α
25	993	C	LEU	647	37.038	18.786	14.921	1.00	73.06	Α
	994	0	LEU	647	37.798	19.493	14.267	1.00	73.18	Α
	995	N	TYR	648	37.343	18.325	16.105	1.00	71.81	Α
	996	CA	TYR	648	38.626	18.614	16.615	1.00	70.55	Α
30	997	СВ	TYR	648	38.770	17.967	17.942	1.00	71.32	Α
	998	CG	TYR	648	40.193	17.938	18.201	1.00	72.59	Α
	999	CD1	TYR	648	40.922	16.773	18.043	1.00	72.98	Α
35	1000	CE1	TYR	648	42.276	16.793	18.159	1.00	74.89	Α
	1001	CD2	TYR	648	40.849	19.122	18.479	1.00	73.43	Α
	1002	CE2	TYR	648	42.193	19.160	18.595	1.00	74.28	Α
40	1003	CZ	TYR	648	42.909	17.992	18.446	1.00	75.87	Α
40	1004	ОН	TYR	648	44.259	18.004	18.666	1.00	78.05	Α
	1005	С	TYR	648	39.727	18.082	15.672	1.00	69.47	Α
	1006	0	TYR	648	40.782	18.697	15.527	1.00	69.10	A
45	1007	N	VAL	649	39.535	16.936	15.042	1.00	68.99	Α
	1008	CA	VAL	649	40.641	16.531	14.205	1.00	68.88	Α
	1009	СВ	VAL	649	40.677	14.969	13.955	1.00	69.22	Α
50	1010	CG1	VAL	649	39.292	14.369	13.993	1.00	68.78	Α
30	1011	CG2	VAL	649	41.391	14.663	12.652	1.00	69.29	Α
	1012	С	VAL	649	40.674	17.386	12.935	1.00	68.29	Α
	1013	0	VAL	649	41.747	17.830	12.515	1.00	67.00	Α
55	1014	N	SER	650	39.507	17.680	12.368	1.00	69.10	Α
	1015	CA	SER	650	39.425	18.528	11.170	1.00	69.39	Α

TABLE 2 (continued)

			AIN OF GRa I		Х	Υ	Z	occ	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	#	^					
	1016	СВ	SER	650	37.979	18.727	10.752	1.00	69.29	Α
	1017	OG	SER	650	37.915	19.900	9.974	1.00	71.17	A
	1018	С	SER	650	40.015	19.922	11.379	1.00	69.02	A
	1019	0	SER	650	40.648	20.502	10.486	1.00	68.81	A
	1020	N	SER	651	39.758	20.475	12.557	1.00	68.62	A
	1021	CA	SER	651	40.248	21.799	12.916	1.00	68.72	A_
	1022	СВ	SER	651	39.724	22.166	14.315	1.00	70.09	Α
	1023	OG	SER	651	40.748	22.677	15.162	1.00	72.58	Α
	1024	С	SER	651	41.772	21.790	12.913	1.00	67.36	Α
)	1025	0	SER	651	42.430	22.683	12.379	1.00	66.28	Α
	1026	N	GLU	652	42.310	20.739	13.514	1.00	66.84	ΑΑ
	1027	CA	GLU	652	43.737	20.543	13.652	1.00	65.75	Α
5	1028	СВ	GLU	652	43.950	19.303	14.497	1.00	65.94	Α
3	1029	CG	GLU	652	45.026	19.432	15.539	1.00	68.92	A
	1030	CD	GLU	652	45.053	20.768	16.255	1.00	70.91	A
	1031	OE1	GLU	652	44.020	21.469	16.341	1.00	72.27	Α
30	1032	OE2	GLU	652	46.141	21.107	16.753	1.00	73.20	Α
	1033	С	GLU	652	44.472	20.448	12.323	1.00	64.24	A
	1034	0	GLU	652	45.601	20.931	12.202	1.00	64.18	A
35	1035	N	LEU	653	43.838	19.818	11.339	1.00	63.37	A
-	1036	CA	LEU	653	44.407	19.689	9.997	1.00	62.68	Α_
	1037	СВ	LEU	653	43.515	18.797	9.117	1.00	60.31	A
	1038	CG	LEU	653	43.496	17.298	9.453	1.00	58.08	A
40	1039	CD1	LEU	653	42.502	16.529	8.584	1.00	56.65	Α
	1040	CD2	LEU	653	44.889	16.766	9.259	1.00	55.94	A
	1041	С	LEU	653	44.437	21.100	9.425	1.00	63.49	A
45	1042	0	LEU	653	45.454	21.574	8.919	1.00	63.20	A .
	1043	N	HIS	654	43.303	21.773	9.532	1.00	65.44	A .
	1044	CA	HIS	654	43.155	23.131	9.050	1.00	66.40	A
	1045	СВ	HIS	654	41.757	23.639	9.408	1.00	68.67	A .
50	1046	CG	HIS	654	41.466	24.995	8.860	1.00	70.94	A .
	1047	CD2	HIS	654	40.952	25.380	7.669	1.00	72.19	A
	1048	ND1	HIS	654	41.829	26.151	9.517	1.00	72.01	A A
55	1049	CE1	HIS	654	41.561	27.190		1.00	72.60	A A
	1050	NE2	HIS	654	41.031	26.749	7.620	1.00	73.26	Α

TABLE 2 (continued)

			TURE COOR							
5	ATOM	ATOM TYPE	RESIDUE	#	×	Y	Z	occ	В	ATOM
	1051	С	HIS	654	44.217	24.058	9.639	1.00	66.64	Α
	1052	0	HIS	654	44.982	24.702	8.912	1.00	66.69	Α
10	1053	N	ARG	655	44.253	24.114	10.964	1.00	66.13	Α
	1054	CA	ARG	655	45.198	24.945	11.685	1.00	65.54	Α
	1055	СВ	ARG	655	45.095	24.674	13.168	1.00	66.61	Α
15	1056	CG	ARG	655	45.840	25.672	14.004	1.00	68.07	Α
	1057	CD	ARG	655	46.173	25.076	15.332	1.00	68.45	Α
	1058	NE	ARG	655	47.501	24.497	15.290	1.00	71.04	Α
	1059	CZ	ARG	655	47.952	23.630	16.183	1.00	73.26	Α
20	1060	NH1	ARG	655	47.162	23.252	17.177	1.00	74.95	Α
	1061	NH2	ARG	655	49.193	23.158	16.096	1.00	73.03	Α
	1062	С	ARG	655	46.624	24.670	11.277	1.00	65.54	Α
25	1063	0	ARG	655	47.460	25.575	11.222	1.00	66.10	Α
	1064	N	LEU	656	46.920	23.408	11.014	1.00	65.42	Α
	1065	CA	LEU	656	48.272	23.039	10.645	1.00	65.44	Α
	1066	СВ	LEU	656	48.584	21.653	11.206	1.00	64.44	Α
30	1067	CG	LEU	656	49.148	21.728	12.619	1.00	63.25	Α
	1068	CD1	LEU	656	49.549	20.337	13.064	1.00	63.29	Α
	1069	CD2	LEU	656	50.358	22.650	12.625	1.00	62.26	Α
35	1070	С	LEU	656	48.571	23.094	9.150	1.00	65.58	Α
	1071	0	LEU	656	49.705	22.815	8.734	1.00	64.71	Α
	1072	N	GLN	657	47.558	23.501	8.375	1.00	66.26	Α
	1073	CA	GLN	657	47.599	23.588	6.907	1.00	67.33	Α
40	1074	СВ	GLN	657	48.272	24.883	6.412	1.00	70.37	Α
	1075	CG	GLN	657	47.332	26.121	6.337	1.00	74.91	Α
	1076	CD	GLN	657	46.109	25.932	5.418	1.00	77.90	Α
45	1077	OE1	GLN	657	44.957	26.078	5.853	1.00	79.08	Α
	1078	NE2	GLN	657	46.362	25.622	4.145	1.00	79.44	Α
	1079	С	GLN	657	48.306	22.374	6.365	1.00	66.01	Α
	1080	0	GLN	657	49.342	22.467	5.708	1.00	67.61	Α
50	1081	N	VAL	658	47.714	21.224	6.663	1.00	64.56	Α
	1082	CA	VAL	658	48.246	19.938	6.260	1.00	63.29	A
	1083	СВ	VAL	658	47.627	18.787	7.098	1.00	61.27	Α
55	1084	CG1	VAL	658	48.073	17.451	6.544	1.00	60.69	Α
	1085	CG2	VAL	658	48.063	18.902	8.562	1.00	59.00	Α

TABLE 2 (continued)

	BINDI	NG DOMA	AIN OF GRα II				·	1		
AT	ОМ	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
10	086	С	VAL	658	48.093	19.630	4.779	1.00	63.70	Α
10	087	0	VAL	658	47.011	19.686	4.196	1.00	64.37	A
10	088	N	SER	659	49.249	19.304	4.214	1.00	64.31	A
10	089	CA	SER	659	49.510	18.938	2.829	1.00	64.00	A
10	090	СВ	SER	659	51.038	18.836	2.715	1.00	65.00	Α
10	091	OG	SER	659	51.521	18.491	1.435	1.00	68.63	A
10	092	С	SER	659	48.833	17.594	2.491	1.00	63.59	A
10	093	0	SER	659	48.599	16.781	3.384	1.00	63.80	Α
10	094	N	TYR	660	48.512	17.353	1.219	1.00	62.62	A
10	095	CA	TYR	660	47.894	16.080	0.862	1.00	60.90	A
10	096	СВ	TYR	660	47.483	16.023	-0.603	1.00	57.88	Α
10	097	CG	TYR	660	46.622	14.816	-0.889	1.00	55.47	Α
10	098	CD1	TYR	660	45.585	14.484	-0.024	1.00	54.48	Α
1	099	CE1	TYR	660	44.729	13.439	-0.283	1.00	52.21	Α
1	100	CD2	TYR	660	46.791	14.045	-2.044	1.00	53.60	Α
1	101	CE2	TYR	660	45.926	12.977	-2.318	1.00	52.33	A
1	102	CZ	TYR	660	44.892	12.692	-1.427	1.00	52.28	A
1	103	ОН	TYR	660	43.969	11.695	-1.661	1.00	53.74	Α
1	104	С	TYR	660	48.888	14.964	1.086	1.00	61.71	A
1	105	0	TYR	660	48.546	13.894	1.581	1.00	62.27	A
1	1106	N	GLU	661	50.129	15.213	0.693	1.00	62.99	A
1	1107	CA	GLU	661	51.145	14.205	0.853	1.00	64.16	Α
1	1108	СВ	GLU	661	52.430	14.641	0.165	1.00	65.20	A
1	1109	CG	GLU	661	52.264	14.520	-1.334	1.00	68.41	A
1	1110	CD	GLU	661	53.567	14.573	-2.093	1.00	70.81	A
1	1111	OE1	GLU	661	54.627	14.807	-1.463	1.00	69.79	A
	1112	OE2	GLU	661	53.525	14.381	-3.331	1.00	73.10	A
	1113	С	GLU	661	51.338	13.912	2.319	1.00	63.87	A
-	1114	0	GLU	661	51.208	12.760	2.734	1.00	64.43	A
-	1115	N	GLU	662	51.626	14.943	3.107	1.00	62.73	A
	1116	CA	GLU	662	51.788	14.740	4.535	1.00	60.94	A
	1117	СВ	GLU	662	51.820	16.072	5.260	1.00	62.39	A
-	1118	CG	GLU	662	53.120	16.809	5.171	1.00	63.89	A
	1119	CD	GLU	662	52.926	18.276	5.467	1.00	65.88	A
	1120	OE1	GLU	662	51.759	18.720	5.449	1.00	66.26	A

			TURE COOF							
5	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
	1121	OE2	GLU	662	53.923	18.992	5.705	1.00	66.78	Α
	1122	C	GLU	662	50.611	13.923	5.068	1.00	59.42	Α
10	1123	0	GLU	662	50.791	13.031	5.897	1.00	59.90	Α
	1124	N	TYR	663	49.408	14.232	4.587	1.00	57.33	Α
	1125	CA	TYR	663	48.182	13.546	5.016	1.00	57.29	Α
15	1126	СВ	TYR	663	46.944	14.179	4.372	1.00	55.05	Α
	1127	CG	TYR	663	45.719	13.267	4.361	1.00	52.55	Α
	1128	CD1	TYR	663	44.988	13.044	5.526	1.00	52.08	Α
	1129	CE1	TYR	663	43.829	12.242	5.521	1.00	51.10	Α
20	1130	CD2	TYR	663	45.272	12.661	3.180	1.00	51.77	Α
	1131	CE2	TYR	663	44.114	11.856	3.161	1.00	50.54	Α
	1132	CZ	TYR	663	43.390	11.656	4.340	1.00	51.46	Α
25	1133	ОН	TYR	663	42.207	10.922	4.350	1.00	52.74	Α
	1134	С	TYR	663	48.114	12.068	4.685	1.00	57.96	Α
	1135	0	TYR	663	47.530	11.268	5.430	1.00	58.51	Α
	1136	N	LEU	664	48.652	11.726	3.520	1.00	58.19	Α
30	1137	CA	LEU	664	48.629	10.366	3.047	1.00	57.31	Α
	1138	СВ	LEU	664	49.030	10.342	1.576	1.00	56.51	Α
	1139	CG	LEU	664	47.854	10.677	0.655	1.00	54.66	Α
35	1140	CD1	LEU	664	48.206	10.343	-0.776	1.00	54.06	Α
	1141	CD2	LEU	664	46.639	9.867	1.068	1.00	52.20	Α
	1142	С	LEU	664	49.547	9.511	3.890	1.00	57.26	Α
	1143	0	LEU	664	49.257	8.342	4.184	1.00	56.63	Α
40	1144	N	CYS	665	50.652	10.128	4.290	1.00	56.70	Α
	1145	CA	CYS	665	51.629	9.475	5.118	1.00	57.53	Α
	1146	СВ	CYS	665	52.910	10.292	5.130	1.00	58.19	Α
45	1147	SG	CYS	665	53.830	10.095	3.584	1.00	63.72	Α
	1148	С	CYS	665	51.099	9.299	6.527	1.00	57.62	Α
	1149	0	CYS	665	51.156	8.203	7.082	1.00	59.12	Α
	1150	N	MET	666	50.557	10.362	7.109	1.00	57.03	Α
50	1151	CA	MET	666	50.042	10.272	8.468	1.00	56.19	Α
	1152	СВ	MET	666	49.433	11.608	8.895	1.00	55.82	A
	1153	CG	MET	666	50.475	12.699	9.005	1.00	57.38	A
55	1154	SD	MET	666	49.817	14.370	9.027	1.00	58.37	Α
	1155	CE	MET	666	49.222	14.475	10.771	1.00	59.18	Α

TABLE 2 (continued)

				COORDI				ntinued)		Y DIFFRA	CTIO	N FRO	M THE L	GANE)
Γ	ATOMIC	STRUC	TURE	COORDII	COMPLE	X WITH	I FLUTI	CASON	E PR	OPIONAT	E AN	DATIF	B RAG	ATO	M
. }	ATOM	ATOM	RES	IDUE	#	Х		Υ		Z	OCI				
5		TYPE	<u> </u>		666	49.01	2	9.180	+	8.638	1.0	0	55.71	A	
Ī	1156	С		IET	666	48.93		8.555	1	9.693	1.0	0	56.57	A	
	1157	0		IET	667	48.22		8.937	,	7.603	1.0	0	55.23		
10	1158	N		YS	667	47.17		7.935	5	7.730	1.0	00	54.64	} -	<u> </u>
	1159	CA		YS	667	46.0		8.190	0	6.698	1.0		53.25	├	A
	1160	СВ		LYS	667	44.9	03	7.30	1	6.845		00	52.56	↓	A
15	1161	CG		LYS	667	43.7	26	7.89	3	6.096		00	52.52		A
	1162	CD		LYS	667	44.0	50	8.16	8	4.637	├ ──	00	51.07 54.84	┼	A
	1163	CE		LYS	667	44.	186	6.90	00	3.877	 	.00	54.78		A
00	1164	NZ		LYS	667	47.	693	6.50	06	7.631	┼	.00	55.27	+	A
20	1165	c		LYS	667	47.	056	5.5	77	8.127	+	.00	55.22	-+	A
	1166	0		THR	668	48.	838	6.3	32	6.983		.00	55.52		A
	1167	N CA		THR	668	49	.433	5.0	13	6.850		1.00 1.00	54.91		Α
25	1168		-+	THR	668	50	.550	5.0	21	5.773		1.00	55.09	+-	Α
	1169	+		THR	668	50	.007		511	4.538		1.00	54.2		Α
	1170	-		THR	668	51	.083	3.6	620	5.535	_	1.00	54.9		Α
30	1171			THR	668	49	9.996		765 	8.243	-+-	1.00	54.8	9	Α
	1172		5	THR	668	49	9.851		674	8.79		1.00	55.2	8	Α
	117		1	LEU	669	5	0.602		.803	8.82		1.00	55.0	00	Α
	117	<u>-</u>	A	LEU	669	5	1.151		.714	10.18		1.00	52.	74	Α
35	117		В	LEU	669	5	1.890		.001	9.92		1.00	51.	51	A
	117		CG	LEU	669	9 5	3.266		.224	10.5		1.00	51.	09	Α
	117		;D1	LEU	669		53.925		3.432	10.1		1.00	51.	14	Α
40			D2	LEU	66		54.144		6.030	+		1.00	55	.52	Α
		80	c	LEU	66		50.049		5.444 4.968	1-00		1.00	56	.72	Α
	11		0	LEU	66	9	50.321		4.966 5.734		+	1.00	55	.19	Α
A	L	82	N	LEU	67		48.805		5.504	-	+	1.00	55	5.37	Α
7	٠	83	CA	LEU		70	47.737		6.432	-	512	1.00) 54	1.24	Α
	ļ	184	СВ	LEU		70	46.566		7.48		498	1.00) 5	3.91	A
	1	185	CG	LEU		70	46.048		8.40		059	1.00	5	1.87	A
	50 1	186	CD1	LEU		70	47.100 45.060		8.28		712	1.0	0 5	6.32	A
	1	187	CD2	LEU		70	47.28		4.04		.849	1.0		6.26	A
		188	С	LEL		670 	46.65		3.59		.806	1.0		6.76	A
	55	1189	0	LEU		670 	47.58		3.3		.784	1.0	00 !	57.62	A
		1190	N	LE	J	671 	1								

TABLE 2 (continued)

	ı		TURE COOF							
5	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
	1191	CA	LEŲ	671	47.216	1.910	10.685	1.00	58.03	Α
	1192	СВ	LEU	671	47.306	1.483	9.207	1.00	54.95	Α
10	1193	CG	LEU	671	47.458	0.030	8.739	1.00	52.63	Α
	1194	CD1	LEU	671	46.215	-0.742	9.077	1.00	51.93	Α
	1195	CD2	LEU	671	47.696	-0.023	7.234	1.00	51.62	Α
15	1196	С	LEU	671	48.233	1.167	11.559	1.00	61.12	Α
	1197	0	LEU	671	47.900	0.228	12.291	1.00	62.38	Α
	1198	N	LEU	672	49.470	1.653	11.511	1.00	63.00	Α
	1199	CA	LEU	672	50.578	1.073	12.259	1.00	63.98	Α
20	1200	СВ	LEU	672	51.843	1.143	11.395	1.00	60.71	Α
	1201	CG	LEU	672	51.592	0.994	9.888	1.00	58.47	Α
	1202	CD1	LEU	672	52.875	1.217	9.095	1.00	56.96	Α
25	1203	CD2	LEU	672	51.013	-0.383	9.621	1.00	56.80	Α
	1204	С	LEU	672	50.826	1.802	13.586	1.00	66.42	Α
	1205	0	LEU	672	51.977	1.885	14.027	1.00	67.06	Α
	1206	N	SER	673	49.768	2.304	14.231	1.00	68.97	Α
30	1207	CA	SER	673	49.936	3.061	15.476	1.00	72.55	Α
	1208	СВ	SER	673	49.203	4.398	15.391	1.00	71.35	Α
	1209	OG	SER	673	47.818	4.198	15.201	1.00	70.80	Α
35	1210	С	SER	673	49.584	2.383	16.798	1.00	75.85	Α
	1211	0	SER	673	49.707	2.988	17.867	1.00	76.67	Α
	1212	N	SER	674	49.095	1.152	16.737	1.00	79.23	Α
	1213	CA	SER	674	48.844	0.423	17.968	1.00	82.13	Α
40	1214	СВ	SER	674	47.492	0.781	18.613	1.00	81.41	Α
	1215	OG	SER	674	46.385	0.252	17.915	1.00	84.00	Α
	1216	С	SER	674	48.970	-1.056	17.652	1.00	83.87	Α
45	1217	0	SER	674	48.424	-1.556	16.661	1.00	84.21	Α
	1218	N	VAL	675	49.776	-1.715	18.477	1.00	85.78	Α
	1219	CA	VAL	675	50.056	-3.137	18.373	1.00	87.96	Α
	1220	СВ	VAL	675	51.556	-3.381	18.110	1.00	86.94	Α
50	1221	CG1	VAL	675	51.926	-2.896	16.726	1.00	86.95	Α
	1222	CG2	VAL	675	52.390	-2.658	19.159	1.00	87.12	Α
	1223	С	VAL	675	49.668	-3.783	19.704	1.00	90.28	Α
55	1224	0	VAL	675	49.483	-3.092	20.709	1.00	89.69	Α
	1225	N	PRO	676	49.544	-5.124	19.726	1.00	93.03	Α

TABLE 2 (continued)

Γ	ATOMIC	STRUC	TURE COORD	INATE DAT	A OBTAINE	FROM X-F	RAY DIFFRA PROPIONAT	CTION FH E AND A T	TF2 FRAGM	IENT
	BINDI	NG DOMA	TURE COORD IN OF GRα IN	COMPLE			Z	occ	В	ATOM
,	ATOM	ATOM TYPE	RESIDUE	#	X	Υ				
}	1226	CD	PRO	676	49.961	-6.005	18.630	1.00	93.57	$\frac{\Lambda}{A}$
	1227	CA	PRO	676	49.182	-5.919	20.904	1.00	95.42	$\frac{1}{A}$
10	1228	СВ	PRO	676	49.235	-7.354	20.380	1.00	94.95	$\frac{\lambda}{A}$
	1229	CG	PRO	676	49.127	-7.206	18.883	1.00	94.18	
	1230	С	PRO	676	50.243	-5.673	21.963	1.00	97.54	
	1231	0	PRO	676	51.352	-5.257	21.626	1.00	98.58	
15	1232	N	LYS	677	49.933	-5.929	23.229	1.00	99.68	
	1233	CA	LYS	677	50.917	-5.693	24.286	1.00	101.53	
	1234	СВ	LYS	677	50.295	-5.899	25.670	1.00	102.63	A
20	1235	CG	LYS	677	51.160	-5.381	26.824	1.00	103.79	
	1236	CD	LYS	677	51.244	-6.398	27.965	1.00	104.31	
	1237	CE	LYS	677	52.012	-7.633	27.522	1.00	104.35	
	1238	NZ	LYS	677	51.800	-8.827	28.387	1.00	105.00	A
25	1239	C	LYS	677	52.107	-6.628	24.116	1.00	102.18	A
	1240	0	LYS	677	53.147	-6.458	24.761	1.00	101.68	A
	1241	N	ASP	678	51.949	-7.615	23.240	1.00	102.84	A
30	1242	CA	ASP	678	53.009	-8.571	22.980	1.00	104.29	A
	1243	СВ	ASP	678	52.524	-9.988	23.281	1.00	106.29	A
	1244	CG	ASP	678	51.908	-10.107	24.656	1.00	108.07	A
	1245		ASP	678	52.320	-9.342	25.551	1.00	108.43	1 A
35	1246		ASP	678	51.025	-10.974	24.842	1.00	109.39	A
	1247		ASP	678	53.469	-8.488	21.532	1.00	104.24	
	1248		ASP	678	53.859	-9.493	20.935	1.00	104.59	A
40	1249		GLY	679	53.424	-7.286	20.968	1.00	103.43	A
	1250		GLY	679	53.840	-7.135	19.590		101.95	+
	125		GLY	679	53.097	-8.131	18.724		101.17	+
	125		GLY	679	52.297	-8.936	19.203		100.48	
45	125		LEU	680	53.382	-8.09	7 17.432		100.20	+
	125			680	52.707	-8.98	3 16.504	1.00	98.61	
	125		·	680	52.425	-8.20	8 15.229		98.06	
50			1,511	680	52.093	-6.76	9 15.60			
	125			680	52.560	-5.84	8 14.51			
	125			680	50.615	-6.63	15.85			 -
				680	53.547	-10.20	16.20			
55	126			680	54.561	-10.45	9 16.85	0 1.00	97.5	8 A

TABLE 2 (continued)

			TURE COOR							
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	1261	N	LYS	681	53.120	-10.968	15.211	1.00	96.17	Α
	1262	CA	LYS	681	53.865	-12.143	14.837	1.00	95.16	Α
10	1263	СВ	LYS	681	52.937	-13.202	14.245	1.00	95.18	Α
	1264	CG	LYS	681	51.846	-13.706	15.192	1.00	94.91	Α
	1265	CD	LYS	681	51.184	-14.927	14.581	1.00	94.17	Α
15	1266	CE	LYS	681	49.836	-15.278	15.191	1.00	93.86	Α
	1267	NZ	LYS	681	49.185	-16.380	14.418	1.00	92.63	Α
	1268	С	LYS	681	54.937	-11.770	13.828	1.00	95.02	Α
	1269	0	LYS	681	55.736	-12.613	13.437	1.00	95.32	Α
20	1270	N	SER	682	54.962	-10.511	13.397	1.00	95.00	Α
	1271	CA	SER	682	55.981	-10.080	12.435	1.00	94.85	Α
	1272	СВ	SER	682	55.377	-9.946	11.029	1.00	94.61	Α
25	1273	OG	SER	682	54.906	-11.193	10.549	1.00	92.86	Α
	1274	С	SER	682	56.639	-8.761	12.842	1.00	94.58	Α
	1275	0	SER	682	57.167	-8.028	12.004	1.00	94.56	Α
	1276	N	GLN	683	56.616	-8.482	14.144	1.00	94.40	Α
30	1277	CA	GLN	683	57.192	-7.269	14.710	1.00	94.48	Α
	1278	СВ	GLN	683	57.517	-7.477	16.180	1.00	95.06	Α
	1279	CG	GLN	683	56.384	-7.111	17.096	1.00	97.14	Α
35	1280	CD	GLN	683	56.186	-5.606	17.210	1.00	98.36	Α
	1281	OE1	GLN	683	55.147	-5.148	17.678	1.00	99.32	Α
	1282	NE2	GLN	683	57.189	-4.835	16.795	1.00	98.03	Α
	1283	С	GLN	683	58.425	-6.725	14.029	1.00	94.16	Α
40	1284	0	GLN	683	58.599	-5.516	13.948	1.00	94.61	Α
	1285	N	GLU	684	59.301	-7.596	13.563	1.00	94.49	Α
	1286	CA	GLU	684	60.494	-7.084	12.915	1.00	95.02	Α
45	1287	СВ	GLU	684	61.445	-8.230	12.567	1.00	97.72	Α
	1288	CG	GLU	684	61.936	-9.001	13.790	1.00	101.32	Α
	1289	CD	GLU	684	62.713 ·	-10.245	13.404	1.00	104.63	Α
50	1290	OE1	GLU	684	62.269	-10.940	12.460	1.00	106.64	Α
50	1291	OE2	GLU	684	63.753	-10.534	14.043	1.00	105.52	Α
	1292	С	GLU	684	60.092	-6.292	11.671	1.00	93.12	Α
	1293	0	GLU	684	60.516	-5.148	11.509	1.00	93.19	Α
55	1294	N	LEU	685	59.257	-6.893	10.814	1.00	90.38	Α
	1295	CA	LEU	685	58.783	-6.237	9.591	1.00	88.13	Α

TABLE 2 (continued)

	ATOMIC BINDI	C STRUC [*] NG DOMA	TURE COORD IN OF GRα IN	COMPLE	WITH FLUT	ICASONE				ATOM
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	
	1006	CB	LEU	685	57.904	-7.198	8.760	1.00	87.12	Α
	1296	CG	LEU	685	58.232	-7.458	7.278	1.00	86.54	A
10	1297	CD1	LEU	685	56.980	-7.975	6.550	1.00	86.04	A
	1298	CD2	LEU	685	58.720	-6.181	6.613	1.00	85.14	A
	1299	C	LEU	685	57.970	-4.993	9.975	1.00	87.42	Α
	1300	0	LEU	685	58.225	-3.894	9.482	1.00	87.78	A
15	1301	N	PHE	686	56.990	-5.178	10.860	1.00	85.68	A
	1302	CA	PHE	686	56.161	-4.083	11.334	1.00	83.88	A
	1303		PHE	686	55.399	-4.497	12.587	1.00	82.21	A
20	1304	CB	PHE	686	54.501	-3.431	13.117	1.00	80.95	A
	1305	CG	PHE	686	53.229	-3.267	12.590	1.00	80.85	A
	1306	CD1	PHE	686	54.948	-2.542	14.090	1.00	80.25	Α
	1307	CD2	PHE	686	52.399	-2.243	13.024	1.00	80.58	Α
25	1308	CE1	PHE	686	54.127	-1.505	14.533	1.00	80.77	Α
	1309	CE2	PHE	686	52.851	-1.352	13.995	1.00	80.71	Α
	1310	CZ		686	57.013	-2.869	11.693	1.00	84.16	Α
30	1311	C	PHE	686	56.863	-1.787	11.125	1.00	84.35	A
50	1312	0	PHE	687	57.906	-3.051	12.657	1.00	84.16	Α
	1313	N	ASP	687	58.755	-1.955	13.088	1.00	84.15	A
	1314	CA	ASP	687	59.742	-2.445	14.165	1.00	86.11	Α
35	1315	СВ	ASP	687	59.088	-2.582	15.559	1.00	87.77	Α
	1316	CG	ASP	687	59.737	-3,133	16.479	1.00	88.21	Α
	1317		ASP	687	57.928	-2.131	15.738	1.00	88.58	Α
40	1318				59.476	-1.326		1.00	83.05	Α
40	1319		ASP	687	59.734	-0.123		1.00	82.98	Α
	1320		ASP	687		-2.135		1.00	81.82	Α
	1321		GLU	688	59.757 60.446	-1.684		1.00	81.05	А
45	1322			688	60.962	-2.903		1.00	84.35	Α
	1323	CB		688	62.429	-2.83			89.90	Α
	1324	t CG		688		-2.60			93.24	Α
EΛ	1325			688	62.642	-3.46			94.85	A
50	1320	6 OE		688	62.207	-1.55			94.38	A
	132			688	63.244	-0.85			78.17	Α Α
	132	8 C		688	59.543	0.13				6 A
55	132	9 O		688	59.974	-1.27				3 A
	133	0 N	ILE	689	58.290	-1.21				

			TURE COOF AIN OF GRα							
5	АТОМ	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	1331	CA	ILE	689	57.334	-0.562	7.807	1.00	71.74	Α
	1332	СВ	ILE ·	689	56.039	-1.363	7.701	1.00	70.89	Α
10	1333	CG2	ILE	689	55.087	-0.735	6.694	1.00	70.61	Α
	1334	CG1	ILE	689	56.393	-2.772	7.253	1.00	70.37	Α
	1335	CD1	ILE	689	55.212	-3.643	7.021	1.00	70.93	Α
15	1336	С	ILE	689	57.126	0.753	8.527	1.00	70.52	Α
	1337	0	ILE	689	57.470	1.809	8.012	1.00	70.29	Α
	1338	N	ARG	690	56.600	0.701	9.745	1.00	68.49	Α
	1339	CA	ARG	690	56.413	1.936	10.470	1.00	67.14	Α
20	1340	СВ	ARG	690	56.263	1.660	11.948	1.00	66.55	Α
	1341	CG	ARG	690	55.840	2.865	12.729	1.00	65.66	Α
	1342	CD	ARG	690	54.881	2.378	13.767	1.00	66.86	Α
25	1343	NE	ARG	690	54.332	3.440	14.589	1.00	69.11	Α
	1344	cz	ARG	690	55.062	4.204	15.386	1.00	71.32	Α
	1345	NH1	ARG	690	56.371	4.020	15.458	1.00	71.35	Α
	1346	NH2	ARG	690	54.481	5.144	16.123	1.00	72.01	Α
30	1347	С	ARG	690	57.566	2.926	10.263	1.00	66.75	Α
	1348	0	ARG	690	57.328	4.088	9.972	1.00	66.46	Α
	1349	N	MET	691	58.814	2.478	10.398	1.00	67.31	Α
<i>35</i>	1350	CA	MET	691	59.941	3.402	10.241	1.00	68.50	Α
	1351	СВ	MET	691	61.241	2.753	10.733	1.00	70.62	Α
	1352	CG	MET	691	62.461	3.684	10.735	1.00	73.77	Α
	1353	SD	MET	691	62.232	5.254	11.652	1.00	79.07	Α
40	1354	CE	MET	691	61.883	4.634	13.390	1.00	75.73	Α
	1355	С	MET	691	60.115	3.933	8.813	1.00	67.84	Α
	1356	0	MET	691	60.691	5.005	8.602	1.00	67.23	Α
45	1357	N	THR	692	59.617	3.186	7.835	1.00	67.57	Α
	1358	CA	THR	692	59.706	3.621	6.452	1.00	66.26	Α
	1359	СВ	THR	692	59.374	2.483	5.479	1.00	66.50	Α
50	1360	OG1	THR	692	60.548	1.686	5.260	1.00	67.25	Α
50	1361	CG2	THR	692	58.880	3.037	4.162	1.00	66.69	Α
	1362	С	THR	692	58.730	4.770	6.255	1.00	65.64	Α
	1363	0	THR	692	59.078	5.784	5.642	1.00	65.69	A
55	1364	N	TYR	693	57.513	4.621	6.779	1.00	64.80	Α
	1365	CA	TYR	693	56.536	5.701	6.664	1.00	64.71	Α

TABLE 2 (continued)

				COORDIN			E 2 (COI		RAY I	DIFFRA	CTION I	ROM	THE LIC	GANE	
	ATOMIC	STRU	TURE	COORDIN	OMPLE)	WIT	H FLUTI	CASONE	PRO	PIONAT	E AND /	A TIF2	B	ATO	м
,	ATOM	ATOM	RES	SIDUE	#	>	(Y						A	
		TYPE		YR	693	55.1	03	5.201		.886	1.00		6.69		
-	1366	CB	 	YR	693	54.6	577	4.298	5	.766	1.00		7.11	A	
	1367	CG	4	ryR	693	54.7	722	4.748		.440	1.00		37.34		
10	1368	CD1		TYR	693	54.5	519	3.881	↓ —	3.386	1.00		66.21		
1	1369	CE1		TYR	693	54.	393	2.955	 	5.001	1.00		67.07		1
	1370	CE2		TYR	693	54.	190	2.078		4.954	1.00		68.00	-	A
15	1371	CZ		TYR	693	54.	264	2.543		3.647	1.00		69.03		A
	1372	OH OH		TYR	693	54	.152	1.651		2.603	1.00		64.42		A
	1373	C		TYR	693	56	.824	6.877		7.589	1.00		65.00	-	A
20	1374	10		TYR	693	56	.325	7.969		7.344	1.00		63.88	+-	A
20	1375	+ N		ILE	694	57	7.605	6.694	-	8.650	1.00		62.99	+-	A
	1376	CA		ILE	694	57	7.900	7.859		9.472	1.00	-+	62.36	+-	A
	1377	-		ILE	694	51	B.571	7.51		10.821	1.00		61.36	+	Α
25	1378			ILE	694	5	9.061	8.78		11.501	1.0		62.16	+-	Α
	1379	-		ILE	694	5	7.553	6.85		11.746	1		61.49	+	Α
	1381			ILE	694	5	8.137	6.40		13.056			62.62	1	Α
30	138		;	ILE	694	5	8.853	8.70		8.640 8.757	+		62.37	,	Α
	138		-	ILE	694		58.890	9.9		7.773		 +	63.30	5	Α
	138		1	LYS	695	!	59.611 	8.0		6.924		00	64.0	1	Α
	138		A	LYS	695		60.541	8.7		6.452		00	65.9	6	Α
35	138		В	LYS	695		61.656	7.8		7.56		00	68.7	5	Α
	138		CG	LYS	695	<u> </u>	62.589		316	6.97		.00	71.8	14	Α
	131		CD	LYS	695	5	63.633		371	7.99		.00	74.9	93	Α
40			CE	LYS	695	5	64.652		841	7.36		.00	75.7	72	Α
	13		NZ	LYS	69	5	65.646		889	5.73		.00	63.	18	A
	13		С	LYS	69	5	59.804		390 .514	5.30		.00	63.	38	Α
45	-	92	0	LYS	69		60.101		.671	5.1		1.00	62.	48	Α
40	´	393	N	GLU	69	6	58.837		.179	4.0		1.00	62	.80	Α
		394	CA	GLU	69		58.059		3.156	3.7		1.00	62	.84	Α
	1	395	СВ	GLU		96	56.969		7.590			1.00	65	.44	Α
5	50 1	396	CG	GLU		96	56.901		3.126		269	1.00	68	3.55	A
	1	397	CD	GLU		96	57.947		7.725	1.3	358	1.00	69	9.98	A
	T	398	OE1	GLU		96	59.132		8.933		380	1.00	69	9.05	A
	55	1399	OE2	GLU		96	57.57	<u></u>	0.532	+	494	1.00	6	3.48	A
		1400	С	GLU	, 6	596	57.44	<u>-</u>							

TABLE 2 (continued)

			TURE COOR							
5	ATOM	ATOM TYPE	RESIDUE	#	×	Y	Z	occ	В	ATOM
	1401	0	GLU	696	57.417	11.494	3.721	1.00	63.32	Α
	1402	N	LEU	697	56.960	10.593	5.743	1.00	63.97	Α
10	1403	CA	LEU	697	56.350	11.799	6.336	1.00	63.42	Α
	1404	СВ	LEU	697	55.832	11.516	7.764	1.00	62.28	Α
	1405	CG	LEU	697	55.230	12.693	8.555	1.00	61.21	Α
15	1406	CD1	LEU	697	53.962	13.141	7.867	1.00	59.88	Α
	1407	CD2	LEU	697	54.919	12.305	10.000	1.00	61.08	Α
	1408	С	LEU	697	57.360	12.939	6.401	1.00	63.31	Α
	1409	0	LEU	697	57.017	14.101	6.195	1.00	63.33	Α
20	1410	N	GLY	698	58.604	12.604	6.708	1.00	63.85	Α
	1411	CA	GLY	698	59.631	13.623	6.771	1.00	64.63	Α
	1412	С	GLY	698	59.873	14.137	5.370	1.00	65.37	Α
25	1413	0	GLY	698	60.160	15.311	5.164	1.00	65.08	Α
	1414	N	LYS	699	59.754	13.247	4.394	1.00	66.39	Α
	1415	CA	LYS	699	59.947	13.649	3.011	1.00	68.06	Α
	1416	СВ	LYS	699	59.919	12.437	2.109	1.00	68.79	Α
30	1417	CG	LYS	699	61.185	11.646	2.136	1.00	71.18	Α
	1418	CD	LYS	699	60.963	10.397	1.352	1.00	71.92	Α
	1419	CE	LYS	699	62.237	9.864	0.785	1.00	72.64	Α
35	1420	NZ	LYS	699	61.851	8.836	-0.208	1.00	73.27	Α
	1421	С	LYS	699	58.845	14.604	2.604	1.00	69.09	Α
	1422	0	LYS	699	59.098	15.610	1.933	1.00	69.42	Α
40	1423	2	ALA	700	57.620	14.277	3.011	1.00	68.96	Α
40	1424	CA	ALA	700	56.471	15.105	2.711	1.00	68.91	Α
	1425	СВ	ALA	700	55.235	14.525	3.356	1.00	68.39	Α
	1426	С	ALA	700	56.747	16.496	3.250	1.00	70.45	Α
45	1427	0	ALA	700	56.729	17.464	2.500	1.00	70.63	Α
	1428	N	ILE	701	57.017	16.581	4.556	1.00	72.26	Α
	1429	CA	ILE	701	57.319	17.847	5.249	1.00	74.11	Α
50	1430	СВ	ILE	701	57.961	17.556	6.637	1.00	72.88	Α
	1431	CG2	ILE	701	58.462	18.835	7.280	1.00	71.61	Α
	1432	CG1	ILE	701	56.943	16.850	7.529	1.00	72.83	Α
	1433	CD1	ILE	701	57.216	16.974	9.009	1.00	72.05	Α
55	1434	С	ILE	701	58.282	18.721	4.445	1.00	76.37	Α
	1435	0	ILE	701	57.977	19.860	4.077	1.00	75.84	Α

TABLE 2 (continued)

	ATOMI	C STRUC	TURE COORD IN OF GRα IN	INATE DAT	TA OBTAINE X WITH FLU	D FROM X-I TICASONE	RAY DIFFRA PROPIONA	TE AND A	TIF2 FRAGM	
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
	1100	N	VAL	702	59.453	18.162	4.193	1.00	79.02	Α
	1436		VAL	702	60.505	18.815	3.441	1.00	83.18	Α
10	1437	CA	VAL	702	61.653	17.827	3.195	1.00	83.12	Α
,,	1438	CB	VAL	702	62.631	18.405	2.202	1.00	83.67	Α
	1439	CG1	VAL	702	62.348	17.502	4.507	1.00	82.28	A
	1440	CG2	VAL	702	60.052	19.381	2.094	1.00	85.97	Α
15	1441	C	VAL	702	60.257	20.561	1.813	1.00	86.89	A
	1442	0	LYS	703	59.466	18.527	1.262	1.00	89.29	Α
	1443	N		703	58.980	18.906	-0.070	1.00	92.79	Α
20	1444	CA	LYS	703	58.138	17.740	-0.638	1.00	90.47	Α
	1445	CB	LYS	703	58.014	17.642	-2.173	1.00	89.42	Α
	1446	CG	LYS	703	57.321	16.325	-2.633	1.00	88.53	Α
	1447	CD	 	703	57.388	16.120	-4.166	1.00	87.74	Α
25	1448	CE	LYS	703	56.350	15.184	-4.728	1.00	87.46	Α
	1449	NZ	LYS	703	58.139	20.197	0.041	1.00	96.58	Α
	1450	C	LYS	703	58.300	21.149	-0.738	1.00	96.91	Α
20	1451	0	LYS		57.266	20.194	1.047	1.00	100.79	Α
30	1452	N	ARG	704	56.327	21.260	1.393	1.00	104.87	Α
	1453	CA	ARG	704	55.784	20.985	2.806	1.00	105.73	Α
	1454	СВ	ARG	704	54.977	22.104	3.412	1.00	107.49	Α
35	1455	CG	ARG	704		21.704	4.659	1.00	109.11	Α
	1456	CD	ARG	704	54.209	22.890	5.106	1.00	111.38	А
	1457	NE	ARG	704	53.494	23.883		1.00	112.38	А
40	1458	CZ	ARG	704	54.049	23.825	1	1.00	112.57	Α
40	1459	NH1	ARG	704	55.331	24.978	 		112.76	A
	1460	NH2	ARG	704	53,349		1.359		107.58	A
	1461	С	ARG	704	56.906	22.651			108.13	A
45	1462	0	ARG	704	56.307	23.618			110.53	A
	1463	N	GLU	705	58.102	22.745	- 	- 	113.44	A
	1464	CA	GLU	705	58.710	24.028			114.43	A
_	1465	СВ	GLU	705	58.866	24.321	1 100		115.34	A
50	1466	CG	GLU	705	59.182	23.034			116.03	A
	1467	CD	GLU	705	59.016	23.153			116.67	
	1468	OE1	GLU	705	59.832	23.860			116.66	
55	1469	OE2	GLU	705	58.065	22.54	+		114.62	
	1470) C	GLU	705	60.034	24.03	7 1.30	1.00	114.02	

TABLE 2 (continued)

STOM				TURE COOF							
1472 N GLY 706 60.543 25.241 1.152 1.00 116.18 A	5	ATOM		RESIDUE	#	х	Y	Z	occ	В	ATOM
10		1471	0	GLU	705	60.574	23.003	0.902	1.00	114.77	Α
1473		1472	N	GLY	706	60.543	25.241	1.152	1.00	116.18	Α
1475 O GLY 706 63.853 25.330 1.897 1.00 121.20 A 1476 N ASN 707 62.000 26.216 2.845 1.00 120.91 A 1477 CA ASN 707 62.581 26.609 4.137 1.00 121.19 A 1478 CB ASN 707 61.710 27.710 4.716 1.00 122.25 A 1479 CG ASN 707 60.240 27.387 4.585 1.00 123.17 A 1480 OD1 ASN 707 59.792 26.332 5.026 1.00 123.06 A 1481 ND2 ASN 707 59.792 26.332 5.026 1.00 123.08 A 1482 C ASN 707 59.481 28.285 3.963 1.00 123.08 A 1483 O ASN 707 61.919 25.294 6.052 1.00 120.52 A 1484 N SER 708 63.978 24.927 5.197 1.00 120.09 A 1485 CA SER 708 64.367 23.864 6.126 1.00 119.78 A 1486 CB SER 708 65.610 23.146 5.586 1.00 120.58 A 1487 OG SER 708 64.639 24.344 7.555 1.00 118.82 A 1489 O SER 708 64.292 22.691 4.257 1.00 121.41 A 1489 O SER 708 64.292 23.619 8.368 1.00 118.32 A 1490 N SER 709 64.208 25.565 7.850 1.00 117.22 A 1491 CA SER 709 64.394 26.147 9.174 1.00 117.22 A 1492 CB SER 709 64.382 25.565 7.850 1.00 117.22 A 1494 C SER 709 64.188 27.660 9.091 1.00 117.22 A 1495 O SER 709 63.429 25.517 10.191 1.00 115.52 A 1496 N GLN 710 62.168 25.339 9.791 1.00 115.87 A 1497 CA GLN 710 60.193 26.759 10.849 1.00 111.67 A 1498 CB GLN 710 59.958 25.675 10.849 1.00 111.67 A 1500 CD GLN 710 58.939 28.182 13.364 1.00 114.64 A 1501 OE1 GLN 710 59.958 25.675 10.849 1.00 114.64 A 1503 C GLN 710 59.954 22.973 10.293 1.00 106.11 A	10	1473	CA	GLY	706	61.852	25.398	0.588	1.00	118.63	Α
15		1474	С	GLY	706	62.672	25.661	1.834	1.00	120.26	Α
1477 CA ASN 707 62.581 26.609 4.137 1.00 121.19 A 1478 CB ASN 707 61.710 27.710 4.716 1.00 122.25 A 1479 CG ASN 707 60.240 27.387 4.585 1.00 123.17 A 1480 OD1 ASN 707 59.792 26.332 5.026 1.00 123.06 A 1481 ND2 ASN 707 59.792 26.332 5.026 1.00 123.06 A 1481 ND2 ASN 707 62.791 25.529 5.210 1.00 120.52 A 1482 C ASN 707 61.919 25.294 6.052 1.00 120.14 A 1484 N SER 708 63.978 24.927 5.197 1.00 120.09 A 1485 CA SER 708 63.978 24.927 5.197 1.00 120.09 A 1486 CB SER 708 65.402 22.691 4.257 1.00 121.41 A 1488 C SER 708 65.402 22.691 4.257 1.00 121.41 A 1488 C SER 708 65.402 22.691 4.257 1.00 121.41 A 1489 O SER 708 65.222 23.619 8.368 1.00 118.32 A 1490 N SER 708 65.222 23.619 8.368 1.00 118.32 A 1491 CA SER 709 64.208 25.565 7.850 1.00 118.32 A 1492 CB SER 709 64.394 26.147 9.174 1.00 116.73 A 1494 C SER 709 63.429 25.517 10.191 1.00 115.52 A 1494 C SER 709 63.429 25.517 10.191 1.00 115.52 A 1495 O SER 709 63.429 25.517 10.191 1.00 115.87 A 1496 N GLN 710 62.168 25.39 9.791 1.00 112.67 A 1498 CB GLN 710 60.193 26.759 11.894 1.00 113.15 A 1499 CG GLN 710 60.193 26.759 11.894 1.00 111.67 A 1499 CG GLN 710 59.958 25.657 10.849 1.00 111.67 A 1500 CD GLN 710 59.958 25.657 10.849 1.00 111.67 A 1500 CD GLN 710 59.958 25.657 10.849 1.00 111.67 A 1500 CD GLN 710 59.958 1.82 13.364 1.00 115.78 A 1500 CD GLN 710 59.958 1.82 13.364 1.00 115.78 A		1475	0	GLY	706	63.853	25.330	1.897	1.00	121.20	Α
1478 CB	15	1476	N	ASN	707	62.000	26.216	2.845	1.00	120.91	Α
20 1479 CG		1477	CA	ASN	707	62.581	26.609	4.137	1.00	121.19	Α
20		1478	СВ	ASN	707	61.710	27.710	4.716	1.00	122.25	Α
1480		1479	CG	ASN	707	60.240	27.387	4.585	1.00	123.17	Α
1482 C ASN 707 62.791 25.529 5.210 1.00 120.52 A	20	1480	OD1	ASN	707	59.792	26.332	5.026	1.00	123.06	Α
25		1481	ND2	ASN	707	59.481	28.285	3.963	1.00	123.82	Α
1484 N SER 708 63.978 24.927 5.197 1.00 120.09 A 1485 CA SER 708 64.367 23.864 6.126 1.00 119.78 A 1486 CB SER 708 65.610 23.146 5.586 1.00 120.58 A 1487 OG SER 708 65.402 22.691 4.257 1.00 121.41 A 1488 C SER 708 64.639 24.344 7.555 1.00 118.82 A 1489 O SER 708 65.222 23.619 8.368 1.00 118.32 A 1490 N SER 709 64.208 25.565 7.850 1.00 117.85 A 1491 CA SER 709 64.394 26.147 9.174 1.00 116.73 A 1492 CB SER 709 64.188 27.660 9.091 1.00 117.22 A 1493 OG SER 709 65.042 28.217 8.105 1.00 118.10 A 1494 C SER 709 63.429 25.517 10.191 1.00 115.52 A 1495 O SER 709 63.830 25.193 11.317 1.00 115.87 A 1496 N GLN 710 62.168 25.339 9.791 1.00 112.97 A 1498 CB GLN 710 59.958 25.657 10.849 1.00 111.67 A 1499 CG GLN 710 59.958 25.657 10.849 1.00 111.67 A 1500 CD GLN 710 58.930 28.182 13.364 1.00 115.78 A 1502 NE2 GLN 710 57.776 27.387 12.420 1.00 114.64 A 1503 C GLN 710 60.720 23.340 10.198 1.00 106.11 A		1482	С	ASN	707	62.791	25.529	5.210	1.00	120.52	Α
1485 CA SER 708 64.367 23.864 6.126 1.00 119.78 A 1486 CB SER 708 65.610 23.146 5.586 1.00 120.58 A 1487 OG SER 708 65.402 22.691 4.257 1.00 121.41 A 1488 C SER 708 64.639 24.344 7.555 1.00 118.82 A 1489 O SER 708 65.222 23.619 8.368 1.00 118.32 A 1490 N SER 709 64.208 25.565 7.850 1.00 117.85 A 1491 CA SER 709 64.394 26.147 9.174 1.00 116.73 A 1492 CB SER 709 64.188 27.660 9.091 1.00 117.22 A 1493 OG SER 709 65.042 28.217 8.105 1.00 118.10 A 1494 C SER 709 63.429 25.517 10.191 1.00 115.52 A 1495 O SER 709 63.830 25.193 11.317 1.00 115.87 A 1496 N GLN 710 62.168 25.339 9.791 1.00 112.97 A 1496 CB GLN 710 59.958 25.657 10.849 1.00 111.67 A 1498 CB GLN 710 59.958 25.657 10.849 1.00 111.67 A 1499 CG GLN 710 58.930 28.182 13.364 1.00 115.78 A 1500 CD GLN 710 58.930 28.182 13.364 1.00 115.78 A 1502 NE2 GLN 710 57.776 27.035 11.815 1.00 114.86 A 1503 C GLN 710 60.720 23.340 10.198 1.00 106.11 A	25	1483	0	ASN	707	61.919	25.294	6.052	1.00	120.14	Α
30 1486 CB SER 708 65.610 23.146 5.586 1.00 120.58 A 1487 OG SER 708 65.402 22.691 4.257 1.00 121.41 A 1488 C SER 708 64.639 24.344 7.555 1.00 118.82 A 1489 O SER 708 65.222 23.619 8.368 1.00 118.32 A 40 1490 N SER 709 64.208 25.565 7.850 1.00 117.85 A 40 1491 CA SER 709 64.394 26.147 9.174 1.00 116.73 A 40 1492 CB SER 709 64.188 27.660 9.091 1.00 117.22 A 40 1493 OG SER 709 63.429 25.517 10.191 1.00 115.52 A 1495	ĺ	1484	N	SER	708	63.978	24.927	5.197	1.00	120.09	Α
30 1487 OG SER 708 65.402 22.691 4.257 1.00 121.41 A 1488 C SER 708 64.639 24.344 7.555 1.00 118.82 A 1489 O SER 708 65.222 23.619 8.368 1.00 118.32 A 35 1490 N SER 709 64.208 25.565 7.850 1.00 117.85 A 40 1491 CA SER 709 64.394 26.147 9.174 1.00 116.73 A 40 1492 CB SER 709 64.188 27.660 9.091 1.00 117.22 A 40 1493 OG SER 709 65.042 28.217 8.105 1.00 118.10 A 40 1494 C SER 709 63.429 25.517 10.191 1.00 115.87 A		1485	CA	SER	708	64.367	23.864	6.126	1.00	119.78	Α
1487 OG SER 708 65.402 22.691 4.257 1.00 121.41 A 1488 C SER 708 64.639 24.344 7.555 1.00 118.82 A 1489 O SER 708 65.222 23.619 8.368 1.00 118.32 A 1490 N SER 709 64.208 25.565 7.850 1.00 117.85 A 1491 CA SER 709 64.394 26.147 9.174 1.00 116.73 A 1492 CB SER 709 64.188 27.660 9.091 1.00 117.22 A 1493 OG SER 709 65.042 28.217 8.105 1.00 118.10 A 1494 C SER 709 63.429 25.517 10.191 1.00 115.52 A 1495 O SER 709 63.830 25.193 11.317 1.00 115.87 A 1496 N GLN 710 62.168 25.339 9.791 1.00 112.97 A 45 1497 CA GLN 710 61.169 24.729 10.669 1.00 109.62 A 1498 CB GLN 710 59.958 25.657 10.849 1.00 111.67 A 1499 CG GLN 710 60.193 26.759 11.894 1.00 113.15 A 1500 CD GLN 710 58.939 28.182 13.364 1.00 115.78 A 1501 OE1 GLN 710 57.776 27.035 11.815 1.00 114.86 A 1503 C GLN 710 60.720 23.340 10.198 1.00 106.11 A		1486	СВ	SER	708	65.610	23.146	5.586	1.00	120.58	Α
1489 O SER 708 65.222 23.619 8.368 1.00 118.32 A 1490 N SER 709 64.208 25.565 7.850 1.00 117.85 A 1491 CA SER 709 64.394 26.147 9.174 1.00 116.73 A 1492 CB SER 709 64.188 27.660 9.091 1.00 117.22 A 1493 OG SER 709 65.042 28.217 8.105 1.00 118.10 A 1494 C SER 709 63.429 25.517 10.191 1.00 115.52 A 1495 O SER 709 63.830 25.193 11.317 1.00 115.87 A 1496 N GLN 710 62.168 25.339 9.791 1.00 112.97 A 1497 CA GLN 710 61.169 24.729 10.669 1.00 109.62 A 1498 CB GLN 710 59.958 25.657 10.849 1.00 111.67 A 1499 CG GLN 710 60.193 26.759 11.894 1.00 113.15 A 1500 CD GLN 710 58.910 27.387 12.420 1.00 114.64 A 1501 OE1 GLN 710 58.939 28.182 13.364 1.00 115.78 A 1502 NE2 GLN 710 57.776 27.035 11.815 1.00 114.86 A 1503 C GLN 710 60.720 23.340 10.198 1.00 105.36 A	30	1487	OG	SER	708	65.402	22.691	4.257	1.00	121.41	Α
35 1490 N SER 709 64.208 25.565 7.850 1.00 117.85 A 1491 CA SER 709 64.394 26.147 9.174 1.00 116.73 A 1492 CB SER 709 64.188 27.660 9.091 1.00 117.22 A 1493 OG SER 709 65.042 28.217 8.105 1.00 118.10 A 1494 C SER 709 63.429 25.517 10.191 1.00 115.52 A 1495 O SER 709 63.830 25.193 11.317 1.00 115.67 A 1496 N GLN 710 62.168 25.339 9.791 1.00 112.97 A 45 1497 CA GLN 710 61.169 24.729 10.669 1.00 109.62 A 1498 CB GLN 710		1488	С	SER	708	64.639	24.344	7.555	1.00	118.82	Α
1491 CA SER 709 64.394 26.147 9.174 1.00 116.73 A 1492 CB SER 709 64.188 27.660 9.091 1.00 117.22 A 1493 OG SER 709 65.042 28.217 8.105 1.00 118.10 A 1494 C SER 709 63.429 25.517 10.191 1.00 115.52 A 1495 O SER 709 63.830 25.193 11.317 1.00 115.87 A 1496 N GLN 710 62.168 25.339 9.791 1.00 112.97 A 1497 CA GLN 710 61.169 24.729 10.669 1.00 109.62 A 1498 CB GLN 710 59.958 25.657 10.849 1.00 111.67 A 1499 CG GLN 710 60.193 26.759 11.894 1.00 113.15 A 1500 CD GLN 710 58.910 27.387 12.420 1.00 114.64 A 1501 OE1 GLN 710 58.939 28.182 13.364 1.00 115.78 A 1502 NE2 GLN 710 60.720 23.340 10.198 1.00 106.11 A 1503 C GLN 710 60.720 23.340 10.198 1.00 105.36 A		1489	0	SER	708	65.222	23.619	8.368	1.00	118.32	Α
1492 CB SER 709 64.188 27.660 9.091 1.00 117.22 A 1493 OG SER 709 65.042 28.217 8.105 1.00 118.10 A 1494 C SER 709 63.429 25.517 10.191 1.00 115.52 A 1495 O SER 709 63.830 25.193 11.317 1.00 115.87 A 1496 N GLN 710 62.168 25.339 9.791 1.00 112.97 A 45 1497 CA GLN 710 61.169 24.729 10.669 1.00 109.62 A 1498 CB GLN 710 59.958 25.657 10.849 1.00 111.67 A 1499 CG GLN 710 60.193 26.759 11.894 1.00 113.15 A 1500 CD GLN 710 58.910 27.387 12.420 1.00 114.64 A 1501 OE1 GLN 710 58.939 28.182 13.364 1.00 115.78 A 1502 NE2 GLN 710 57.776 27.035 11.815 1.00 114.86 A 1503 C GLN 710 60.720 23.340 10.198 1.00 106.11 A	35	1490	N	SER	709	64.208	25.565	7.850	1.00	117.85	Α
1493 OG SER 709 65.042 28.217 8.105 1.00 118.10 A 1494 C SER 709 63.429 25.517 10.191 1.00 115.52 A 1495 O SER 709 63.830 25.193 11.317 1.00 115.87 A 1496 N GLN 710 62.168 25.339 9.791 1.00 112.97 A 45 1497 CA GLN 710 61.169 24.729 10.669 1.00 109.62 A 1498 CB GLN 710 59.958 25.657 10.849 1.00 111.67 A 1499 CG GLN 710 60.193 26.759 11.894 1.00 113.15 A 1500 CD GLN 710 58.910 27.387 12.420 1.00 114.64 A 1501 OE1 GLN 710 58.939 28.182 13.364 1.00 115.78 A 1502 NE2 GLN 710 60.720 23.340 10.198 1.00 106.11 A 55 1504 O GLN 710 59.542 22.973 10.293 1.00 105.36 A		1491	CA	SER	709	64.394	26.147	9.174	1.00	116.73	Α
40 1494 C SER 709 63.429 25.517 10.191 1.00 115.52 A 1495 O SER 709 63.830 25.193 11.317 1.00 115.87 A 1496 N GLN 710 62.168 25.339 9.791 1.00 112.97 A 45 1497 CA GLN 710 61.169 24.729 10.669 1.00 109.62 A 1498 CB GLN 710 59.958 25.657 10.849 1.00 111.67 A 1499 CG GLN 710 60.193 26.759 11.894 1.00 113.15 A 50 1500 CD GLN 710 58.910 27.387 12.420 1.00 114.64 A 1501 OE1 GLN 710 58.939 28.182 13.364 1.00 115.78 A 1502 NE2 GLN		1492	СВ	SER	709	64.188	27.660	9.091	1.00	117.22	Α
1494 C SER 709 63.429 25.517 10.191 1.00 115.52 A 1495 O SER 709 63.830 25.193 11.317 1.00 115.87 A 1496 N GLN 710 62.168 25.339 9.791 1.00 112.97 A 1497 CA GLN 710 61.169 24.729 10.669 1.00 109.62 A 1498 CB GLN 710 59.958 25.657 10.849 1.00 111.67 A 1499 CG GLN 710 60.193 26.759 11.894 1.00 113.15 A 1500 CD GLN 710 58.910 27.387 12.420 1.00 114.64 A 1501 OE1 GLN 710 58.939 28.182 13.364 1.00 115.78 A 1502 NE2 GLN 710 60.720 23.340 10.198 1.00 106.11 A 55 1504 O GLN 710 59.542 22.973 10.293 1.00 105.36 A	. [1493	OG	SER	709	65.042	28.217	8.105	1.00	118.10	Α
1496 N GLN 710 62.168 25.339 9.791 1.00 112.97 A 1497 CA GLN 710 61.169 24.729 10.669 1.00 109.62 A 1498 CB GLN 710 59.958 25.657 10.849 1.00 111.67 A 1499 CG GLN 710 60.193 26.759 11.894 1.00 113.15 A 1500 CD GLN 710 58.910 27.387 12.420 1.00 114.64 A 1501 OE1 GLN 710 58.939 28.182 13.364 1.00 115.78 A 1502 NE2 GLN 710 57.776 27.035 11.815 1.00 114.86 A 1503 C GLN 710 60.720 23.340 10.198 1.00 106.11 A	40	1494	С	SER	709	63.429	25.517	10.191	1.00	115.52	Α
45 1497 CA GLN 710 61.169 24.729 10.669 1.00 109.62 A 1498 CB GLN 710 59.958 25.657 10.849 1.00 111.67 A 1499 CG GLN 710 60.193 26.759 11.894 1.00 113.15 A 50 1500 CD GLN 710 58.910 27.387 12.420 1.00 114.64 A 1501 OE1 GLN 710 58.939 28.182 13.364 1.00 115.78 A 1502 NE2 GLN 710 57.776 27.035 11.815 1.00 114.86 A 1503 C GLN 710 60.720 23.340 10.198 1.00 106.11 A 55 1504 O GLN 710 59.542 22.973 10.293 1.00 105.36 A		1495	0	SER	709	63.830	25.193	11.317	1.00	115.87	Α
1498 CB GLN 710 59.958 25.657 10.849 1.00 111.67 A 1499 CG GLN 710 60.193 26.759 11.894 1.00 113.15 A 1500 CD GLN 710 58.910 27.387 12.420 1.00 114.64 A 1501 OE1 GLN 710 58.939 28.182 13.364 1.00 115.78 A 1502 NE2 GLN 710 57.776 27.035 11.815 1.00 114.86 A 1503 C GLN 710 60.720 23.340 10.198 1.00 106.11 A 55 1504 O GLN 710 59.542 22.973 10.293 1.00 105.36 A		1496	N	GLN	710	62.168	25.339	9.791	1.00	112.97	Α
1499 CG GLN 710 60.193 26.759 11.894 1.00 113.15 A 1500 CD GLN 710 58.910 27.387 12.420 1.00 114.64 A 1501 OE1 GLN 710 58.939 28.182 13.364 1.00 115.78 A 1502 NE2 GLN 710 57.776 27.035 11.815 1.00 114.86 A 1503 C GLN 710 60.720 23.340 10.198 1.00 106.11 A 55 1504 O GLN 710 59.542 22.973 10.293 1.00 105.36 A	45	1497	CA	GLN	710	61.169	24.729	10.669	1.00	109.62	Α
50 CD GLN 710 58.910 27.387 12.420 1.00 114.64 A 1501 OE1 GLN 710 58.939 28.182 13.364 1.00 115.78 A 1502 NE2 GLN 710 57.776 27.035 11.815 1.00 114.86 A 1503 C GLN 710 60.720 23.340 10.198 1.00 106.11 A 55 1504 O GLN 710 59.542 22.973 10.293 1.00 105.36 A		1498	СВ	GLN	710	59.958	25.657	10.849	1.00	111.67	Α
50 1501 OE1 GLN 710 58.939 28.182 13.364 1.00 115.78 A 1502 NE2 GLN 710 57.776 27.035 11.815 1.00 114.86 A 1503 C GLN 710 60.720 23.340 10.198 1.00 106.11 A 55 1504 O GLN 710 59.542 22.973 10.293 1.00 105.36 A		1499	CG	GLN	710	60.193	26.759	11.894	1.00	113.15	Α
1501 OE1 GLN 710 58.939 28.182 13.364 1.00 115.78 A 1502 NE2 GLN 710 57.776 27.035 11.815 1.00 114.86 A 1503 C GLN 710 60.720 23.340 10.198 1.00 106.11 A 55 1504 O GLN 710 59.542 22.973 10.293 1.00 105.36 A	50	1500	CD	GLN	710	58.910	27.387	12.420	1.00	114.64	Α
1503 C GLN 710 60.720 23.340 10.198 1.00 106.11 A 55 1504 O GLN 710 59.542 22.973 10.293 1.00 105.36 A	50 [1501	OE1	GLN	710	58.939	28.182	13.364	1.00	115.78	Α
55 1504 O GLN 710 59.542 22.973 10.293 1.00 105.36 A		1502	NE2	GLN	710	57.776	27.035	11.815	1.00	114.86	Α
	Ī	1503	С	GLN	710	60.720	23.340	10.198	1.00	106.11	Α
1505 N ASN 711 61.682 22.573 9.692 1.00 101.53 A	55	1504	0	GLN	710	59.542	22.973	10.293	1.00	105.36	Α
		1505	N	ASN	711	61.682	22.573	9.692	1.00	101.53	Α

TABLE 2 (continued)

			TURE COOR AIN OF GRα I							
5	ATOM	ATOM TYPE	RESIDUE	#	×	Y	Z	occ	В	АТОМ
	1506	CA	ASN	711	61.406	21.225	9.242	1.00	96.35	Α
	1507	СВ	ASN	711	62.540	20.705	8.362	1.00	95.93	Α
10	1508	CG	ASN	711	62.287	20.980	6.892	1.00	96.22	Α
	1509	OD1	ASN	711	63.138	20.721	6.041	1.00	96.50	Α
	1510	ND2	ASN	711	61.101	21.502	6.587	1.00	95.88	Α
15	1511	С	ASN	711	61.200	20.339	10.461	1.00	93.06	Α
	1512	0	ASN	711	60.173	19.673	10.568	1.00	92.98	Α
	1513	N	TRP	712	62.142	20.328	11.395	1.00	88.90	Α
	1514	CA	TRP	712	61.896	19.508	12.573	1.00	85.12	Α
20	1515	СВ	TRP	712	63.139	19.345	13.448	1.00	82.71	Α
	1516	CG	TRP	712	64.206	18.565	12.816	1.00	78.88	Α
	1517	CD2	TRP	712	64.273	17.140	12.692	1.00	77.30	Α
25	1518	CE2	TRP	712	65.454	16.845	11.979	1.00	77.10	Α
	1519	CE3	TRP	712	63.495	16.079	13.175	1.00	76.79	Α
	1520	CD1	TRP	712	65.278	19.061	12.155	1.00	77.85	Α
	1521	NE1	TRP	712	66.032	18.038	11.638	1.00	77.39	Α
30	1522	CZ2	TRP	712	65.824	15.539	11.650	1.00	77.27	Α
	1523	CZ3	TRP	712	63.869	14.773	12.857	1.00	77.22	Α
	1524	CH2	TRP	712	65.043	14.516	12.126	1.00	76.39	Α
35	1525	С	TRP	712	60.781	20.095	13.427	1.00	84.16	Α
	1526	0	TRP	712	60.240	19.394	14.280	1.00	84.15	Α
	1527	Ν	GLN	713	60.426	21.359	13.233	1.00	83.31	Α
. [1528	CA	GLN	713	59.352	21.887	14.059	1.00	82.44	Α
40	1529	СВ	GLN	713	59.316	23.418	14.051	1.00	85.53	Α
	1530	CG	GLN	713	58.358	24.025	15.110	1.00	89.96	Α
	1531	CD	GLN	713	58.571	23.473	16.534	1.00	92.69	Α
45	1532	OE1	GLN	713	57.728	22.737	17.066	1.00	92.02	Α
	1533	NE2	GLN	713	59.701	23.832	17.152	1.00	93.58	Α
	1534	С	GLN	713	58.014	21.327	13.595	1.00	80.69	Α
50	1535	0	GLN	713	57.169	20.991	14.417	1.00	80.26	Α
30	1536	N	ARG	714	57.840	21.202	12.281	1.00	78.63	Α
ĺ	1537	CA	ARG	714	56.596	20.673	11.715	1.00	76.05	Α
	1538	СВ	ARG	714	56.511	20.977	10.226	1.00	75.18	Α
55	1539	CG	ARG	714	55.148	20.658	9.665	1.00	74.15	Α
	1540	CD	ARG	714	55.015	21.162	8.264	1.00	73.11	Α

TABLE 2 (continued)

	I		TURE COOR							
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	1541	NE	ARG	714	53.718	20.828	7.681	1.00	72.23	Α
	1542	CZ	ARG	714	52.573	21.419	8.001	1.00	71.10	Α
10	1543	NH1	ARG	714	52.542	22.374	8.917	1.00	70.94	Α
	1544	NH2	ARG	714	51.459	21.068	7.372	1.00	69.74	Α
	1545	C	ARG	714	56.448	19.173	11.918	1.00	75.24	Α
15	1546	0	ARG	714	55.332	18.655	12.017	1.00	75.01	Α
	1547	N	PHE	715	57.573	18.475	11.953	1.00	74.26	Α
	1548	CA	PHE	715	57.544	17.043	12.167	1.00	73.79	Α
	1549	СВ	PHE	715	58.935	16.456	12.019	1.00	73.23	Α
20	1550	CG	PHE	715	58.969	14.973	12.143	1.00	73.54	Α
	1551	CD1	PHE	715	58.715	14.169	11.038	1.00	74.69	Α
	1552	CD2	PHE	715	59.213	14.372	13.367	1.00	74.25	Α
25	1553	CE1	PHE	715	58.720	12.791	11.148	1.00	74.64	Α
	1554	CE2	PHE	715	59.219	12.990	13.494	1.00	74.97	Α
	1555	CZ	PHE	715	58.968	12.196	12.383	1.00	75.12	Α
	1556	С	PHE	715	57.049	16.804	13.586	1.00	73.88	Α
30	1557	0	PHE	715	56.413	15.791	13.875	1.00	73.98	Α
	1558	N	TYR	716	57.356	17.756	14.466	1.00	74.00	Α
	1559	CA	TYR	716	56.950	17.682	15.862	1.00	73.76	Α
35	1560	СВ	TYR	716	57.698	18.738	16.681	1.00	74.90	Α
	1561	CG	TYR	716	57.303	18.724	18.134	1.00	76.12	Α
	1562	CD1	TYR	716	57.656	17.657	18.961	1.00	76.63	Α
	1563	CE1	TYR	716	57.199	17.579	20.270	1.00	77.14	Α
40	1564	CD2	TYR	716	56.493	19.725	18.659	1.00	76.34	Α
	1565	CE2	TYR	716	56.028	19.657	19.964	1.00	77.79	Α
	1566	CZ	TYR	716	56.383	18.581	20.764	1.00	77.71	Α
45	1567	ОН	TYR	716	55.878	18.483	22.037	1.00	77.98	Α
	1568	С	TYR	716	55.445	17.900	16.008	1.00	73.41	Α
	1569	0	TYR	716	54.773	17.154	16.720	1.00	73.40	Α
50	1570	N	GLN	717	54.932	18.930	15.341	1.00	72.86	Α
50	1571	CA	GLN	717	53.506	19.246	15.381	1.00	72.51	A
	1572	СВ	GLN	717	53.199	20.517	14.570	1.00	74.03	Α
	1573	CG	GLN	717	53.717	21.832	15.172	1.00	77.70	Α
<i>5</i> 5	1574	CD	GLN	717	53.451	23.065	14.288	1.00	80.63	Α
	1575	OE1	GLN	717	53.797	23.094	13.098	1.00	81.29	Α

TABLE 2 (continued)

	BIND	NG DOMA	TURE COORI	N COMPLE	X WITH FLU	TICASONE	PROFICIAL	T T		
5	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
	1576	NE2	GLN	717	52.848	24.096	14.881	1.00	81.96	A
	1577	С	GLN	717	52.728	18.074	14.791	1.00	71.31	A
10	1578	0	GLN	717	51.828	17.516	15.418	1.00	71.30	A
	1579	N	LEU	718	53.089	17.687	13.575	1.00	68.89	A
	1580	CA	LEU	718	52.396	16.596	12.931	1.00	66.70	A
	1581	СВ	LEU	718	53.019	16.309	11.578	1.00	65.16	A
15	1582	CG	LEU	718	52.851	17.456	10.603	1.00	64.70	A
	1583	CD1	LEU	718	53.411	17.030	9.276	1.00	64.31	Α
	1584	CD2	LEU	718	51.387	17.819	10.472	1.00	65.25	A
20	1585	С	LEU	718	52.322	15.303	13.717	1.00	66.09	A
	1586	0	LEU	718	51.271	14.677	13.761	1.00	66.32	A
	1587	N	THR	719	53.429	14.894	14.331	1.00	66.23	A
0.5	1588	CA	THR	719	53.441	13.637	15.074	1.00	67.26	A
25	1589	СВ	THR	719	54.880	13.161	15.289	1.00	67.26	A
	1590	OG1	THR	719	55.556	14.070	16.161	1.00	67.19	A
	1591	CG2	THR	719	55.618	13.100	13.947	1.00	65.43	Α
30	1592	С	THR	719	52.715	13.758	16.417	1.00	68.33	A
	1593	0	THR	719	52.254	12.758	16.995	1.00	67.95	A
	1594	N	LYS	720	52.623	15.003	16.885	1.00	69.49	A
05	1595	CA	LYS	720	51.937	15.361	18.120	1.00	70.54	A
35	1596	СВ	LYS	720	52.232	16.839	18.424	1.00	73.28	A
	1597	CG	LYS	720	52.196	17.259	19.894	1.00	77.37	A
	1598	CD	LYS	720	53.224	16.488	20.738	1.00	80.58	A
40	1599	CE	LYS	720	52.565	15.638	21.853	1.00	82.40	A
	1600	NZ	LYS	720	51.608	14.564	21.400	1.00	81.87	A
	1601	С	LYS	720	50.438	15.137	17.809	1.00	69.73	A
45	1602	0	LYS	720	49.680	14.604	18.629	1.00	70.78	A
.40	1603	N	LEU	721	50.029	15.530	16.599	1.00	67.65	A
	1604	CA	LEU	721	48.649	15.353	16.146	1.00	65.04	A
	1605		LEU	721	48.450	15.934	14.740	1.00	63.50	A
50	1606		LEU	721	47.028	16.423	14.419	1.00	62.27	A
	1607	+	LEU	721	46.820	16.517	12.919	1.00	60.98	A .
	1608			721	46.008	15.489	15.027	1.00	62.51	A
55	1609		LEU	721	48.348	13.860	16.093	1.00	64.45	A
	1610		LEU	721	47.318	13.407	16.581	1.00	65.22	A

TABLE 2 (continued)

-			TURE COOF							
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	1611	N	LEU	722	49.249	13.108	15.467	1.00	63.64	Α
	1612	CA	LEU	722	49.095	11.668	15.344	1.00	62.92	Α
10	1613	СВ	LEU	722	50.359	11.048	14.764	1.00	60.54	Α
	1614	CG	LEU	722	50.490	11.222	13.260	1.00	57.75	Α
	1615	CD1	LEU	722	51.771	10.603	12.779	1.00	55.67	Α
15	1616	CD2	LEU	722	49.301	10.577	12.589	1.00	55.86	Α
	1617	C	LEU	722	48.832	11.061	16.695	1.00	64.43	Α
ĺ	1618	0	LEU	722	47.985	10.175	16.833	1.00	64.56	Α
	1619	N	ASP	723	49.575	11.544	17.689	1.00	66.00	Α
20	1620	CA	ASP	723	49.440	11.071	19.063	1.00	67.32	Α
	1621	СВ	ASP	723	50.504	11.708	19.957	1.00	68.83	Α
	1622	CG	ASP	723	51.815	10.946	19.958	1.00	71.08	Α
25	1623	OD1	ASP	723	51.917	9.887	19.293	1.00	71.58	Α
	1624	OD2	ASP	723	52.751	11.416	20.646	1.00	72.22	Α
	1625	С	ASP	723	48.061	11.390	19.635	1.00	67.50	Α
. [1626	0	ASP	723	47.419	10.530	20.233	1.00	67.38	Α
30	1627	2	SER	724	47.605	12.622	19.460	1.00	67.60	Α
	1628	CA	SER	724	46.306	12.979	19.998	1.00	68.26	Α
	1629	СВ	SER	724	46.055	14.481	19.846	1.00	69.65	Α
35	1630	OG	SER	724	46.043	14.873	18.485	1.00	72.65	Α
	1631	С	SER	724	45.170	12.186	19.355	1.00	68.41	Α
	1632	0	SER	724	44.018	12.323	19.749	1.00	68.56	Α
40	1633	N	MET	725	45.477	11.354	18.361	1.00	68.11	Α
40	1634	CA	MET	725	44.421	10.567	17.737	1.00	66.74	Α
	1635	СВ	MET	725	44.856	10.002	16.384	1.00	65.02	Α
	1636	CG	MET	725	44.938	11.011	15.260	1.00	63.01	Α
45	1637	SD	MET	725	43.372	11.815	14.850	1.00	61.30	Α
	1638	CE	MET	725	42.296	10.467	14.601	1.00	60.48	Α
	1639	С	MET	725	44.038	9.417	18.650	1.00	67.46	Α
50	1640	0	MET	725	42.928	8.894	18.555	1.00	68.23	Α
	1641	N	HIS	726	44.948	9.000	19.524	1.00	67.20	Α
	1642	CA	HIS	726	44.596	7.924	20.433	1.00	67.38	Α
	1643	СВ	HIS	726	45.810	7.409	21.227	1.00	64.41	Α
55	1644	CG	HIS	726	46.804	6.622	20.417	1.00	60.65	Α
[1645	CD2	HIS	726	48.071	6.926	20.043	1.00	59.49	Α

TABLE 2 (continued)

						ABLE 2 (IEED A	CTION FF	OM T	THE LIG	AND	
г	ATOM!	STRUC	TURE COC	RDINA	TE DATA	OBTAINE	DFRO	OM X-R	RAY D	IONATI	E AND A	TIF2	FRAGM	ENT	
1	BINDI	VG DOM	TURE COC	x IN CO	OMPLEX				7		occ	E	3	ATOM	
5	ATOM	MOTA	RESIDUE		#	×	Y		-						-
		TYPE		 -	726	46.566	5.3	346	19.9	69	1.00		9.00		-
	1646	ND1	HIS			47.649	4.	886	19.3	352	1.00		3.49	<u>A</u> _	
	1647	CE1	HIS		726	48.571	5.	825	19.3	385	1.00	58	8.18		
10	1648	NE2	HIS		726	43,563	8.	.519	21.	389	1.00	6	9.98	<u>A</u>	
	1649	C	HIS		726	42.660	7	.820	21.	825	1.00	 	1.06	A	\dashv
	1650	0	HIS		727	43.679	9	.811	21.	704	1.00	4-	3.24	A	-
15	1651	N	GLU		727	42.711	10	.453	22.	.604	1.00	+	76.05	A	\dashv
	1652	CA	GLU		727	43.221	11	.847	23	.070	1.00	4	78.51	A	
	1653	СВ	GLU		727	42,424	13	3.114	22	.613	1.00		84.07	A	
	1654	CG	GLU		727	43.301	14	4.398	22	2.491	1.00		87.46	A	
20	1655	CD	GLU		727	44,458	1.	4.402	22	2.987	1.00		88.22	A	
	1656	OE1	GLU		727	42.829	1	5.406	2	1.901	1.00		87.58	A	
	1657	OE2			727	41.345	1	0.570	2	1.935	1.00		76.51		
25	1658	C	GLU		727	40.334	- 1 - 1	0.193	2	2.520	1.00		76.62		\
	1659	0	GLU		728	41.287		11.059	2	0.705	1.00		77.36	 	<u> </u>
	1660	N	VA		728	39.977	+	11.185	2	20.094	1.00		77.61		<u> </u>
	1661	CA		+	728	39,992		12.131	1	18.867	1.00		77.17		<u> </u>
30	1662	CE		+	 	41.342		12.768	1	18.725	1.00		77.42		<u> </u>
	1663	3 CG			728	39.603		11.395	5	17.614	1.00		77.94		<u> </u>
	166	4 CG		- -	728	39.371		9.829	•	19.740	1.00		78.18	+-	<u> </u>
35	166	5 C			728	38.155		9.65	5	19.855	1.00)	78.24		<u> </u>
	166	6 C		AL	729	40.188		8.86	4	19.325	1.00		79.36 		<u> </u>
	166	7 N		<u> </u>	729	39.628		7.55	5	19.008	1.00	2	80.65		<u> </u>
	166	8 C		AL	729	40.693		6.54	6	18.563	3 1.0	0	80.37		<u> </u>
40	166	39 C		AL	729	40.09		5.15	54	18.530	0 1.0	0	80.5	4	_ <u>A</u>
	16	70 C		AL	729	41.19		6.90	05	17.18	3 1.0	0	81.1		_ <u>A</u> _
	16			AL	729		-	7.02	20	20.25	9 1.0	00	81.6		_ <u>A</u> _
45	5 16	72		AL	729			6.6	06	20.22	0 1.0	00	82.2		
	16	73		/AL	730			7.0	29	21.36	39 1.0	00	82.7		_ <u>^</u>
	16	574	<u>'`</u>	SLU	730			6.5	666	22.62	20 1.	00	84.1	-+	_ <u>A</u>
	1	375	<u></u>	GLU 	730			7.0)16	23.7	54 1.	00	85.4		<u>A</u>
5	10			GLU	73			6.4	176	25.1	17 1.	.00	88.		<u>A</u>
	1	677	CG	GLU	73			6.8	857	26.1	02 1	.00	90.	+	A
	1	678	CD	GLU				8.0	040	26.0	96 1	.00	91.	+	A
	55 1	679	OE1	GLU	73			5.	982	26.8	376 1	.00	92	.37	A
	T-1	680	OE2	GLU	73	77.2		<u> </u>		1					

TABLE 2 (continued)

			TURE COOF							
5	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
	1681	С	GLU	730	37.671	7.137	22.766	1.00	84.44	Α
	1682	0	GLU	730	36.709	6.375	22.882	1.00	84.46	Α
10	1683	N	ASN	731	37.529	8.462	22.726	1.00	85.16	Α
	1684	CA	ASN	731	36.214	9.114	22.839	1.00	85.37	Α
	1685	СВ	ASN	731	36.325	10.622	22.682	1.00	86.19	Α
15	1686	CG	ASN	731	36.897	11.274	23.882	1.00	86.88	Α
	1687	OD1	ASN	731	36.493	10.986	25.005	1.00	88.09	Α
	1688	ND2	ASN	731	37.840	12.177	23.667	1.00	87.13	Α
	1689	С	ASN	731	35.213	8.666	21.803	1.00	85.12	Α
20	1690	0	ASN	731	34.036	8.481	22.102	1.00	84.67	Α
	1691	N	LEU	732	35.676	8.545	20.573	1.00	84.94	Α
	1692	CA	LEU	732	34.789	8.139	19.511	1.00	85.15	Α
25	1693	СВ	LEU	732	35.490	8.262	18.167	1.00	83.41	Α
	1694	CG	LEU	732	35.707	9.696	17.691	1.00	82.65	Α
	1695	CD1	LEU	732	36.028	9.661	16.211	1.00	82.43	Α
	1696	CD2	LEU	732	34.458	10.530	17.939	1.00	81.93	Α
30	1697	С	LEU	732	34.269	6.727	19.718	1.00	86.42	Α
	1698	0	LEU	732	33.076	6.476	19.564	1.00	85.99	Α
	1699	N	LEU	733	35.165	5.818	20.099	1.00	88.47	Α
35	1700	CA	LEU	733	34.834	4.407	20.310	1.00	90.36	Α
	1701	СВ	LEU	733	36.145	3.619	20.442	1.00	89.51	A
	1702	CG	LEU	733	36.535	2.352	19.657	1.00	89.28	Α
	1703	CD1	LEU	733	.35.949	2.280	18.252	1.00	88.11	Α
40	1704	CD2	LEU	733	38.058	2.351	19.600	1.00	88.74	Α
	1705	С	LEU	733	33.886	4.098	21.488	1.00	92.45	Α
	1706	0	LEU	733	32.949	3.309	21.325	1.00	92.88	Α
45	1707	N	ASN	734	34.111 1	4.699	22.662	1.00	94.41	Α
	1708	CA	ASN	734	33.239	4.446	23.826	1.00	96.34	Α
	1709	СВ	ASN	734	33.569	5.380	24.990	1.00	98.01	Α
	1710	CG	ASN	734	34.943	5.145	25.555	1.00	100.48	Α
50	1711	OD1	AŚN	734	35.434	4.013	25.576	1.00	101.32	Α
	1712	ND2	ASN	734	35.571	6.209	26.039	1.00	101.67	Α
	1713	С	ASN	734	31.785	4.673	23.465	1.00	96.76	Α
55	1714	0	ASN	734	30.903	3.870	23.769	1.00	96.85	Α
	1715	N	TYR	735	31.568	5.817	22.828	1.00	97.87	Α

TABLE 2 (continued)

					TA	BLE 2 (co	ntinued)			OTION ED	OM THE LI	GAND
٢	ATOMIC	STRUC	TURE COOF	RDINATE D	ATA	OBTAINED	FROM X-F	RAY [PROF	OIFFRA PIONAT	E AND A T	IF2 FRAGI	MENT
	BINDI	NG DOMA	TURE COOF AIN OF GRA	IN COMPL	EX V		Y	Z		occ	В	ATOM
5	ATOM	ATOM	RESIDUE	#		X						
-		CA	TYR	735	30	0.272	6.279	22.3	366	1.00	98.53	
-	1716	CB	TYR	735	3	0.446	7.677	21.	791	1.00	100.86	
10	1717	CG	TYR	735	2	9.259	8.590	21.	899	1.00	103.46	A
,,	1718	CD1	TYR	735	2	7.960	8.131	21.	665	1.00	104.41	A
	1719	CE1	TYR	735	1 2	6.864	8.992	21.	773	1.00	106.25	A
	1720	CD2	TYR	735	1 2	9.445	9.927	22	.244	1.00	104.91	A
15	1721	CE2	TYR	735	1 2	28.374	10.799	22	.357	1.00	106.48	A
	1722	CZ	TYR	735	1	27.081	10.331	22	.119	1.00	107.25	
	1723		TYR	735	1	26.037	11.228	22	.198	1.00	108.22	A
20	1724	ОН	TYR	735	+	29.767	5.363	21	.258	1.00	97.72	A
	1725	0	TYR	735	\top	28.607	5.437	20).856	1.00	98.21	A
	1726	l N	CYS	736	\neg	30.652	4.519	20).744	1.00	96.14	A
	1727	CA	CYS	736	十	30.293	3.611	19	9.666	1.00	94.51	A A
25	1728	CB	CYS	736	_	31.473	3.426	1	8.719	1.00	93.20	1 A
	1729	SG	CYS	736	_	31.103	2.373	1	7.310	1.00	89.33	1 A
	1730	C	CYS	736		29.884	2.268	2	0.225	1.00	94.66	A
30	1731		CYS	736	-	28.961	1.629	1	9.719	1.00	93.86	+
	1732		PHE	737	,	30.605	1.849	2	21.262	1.00	95.33	+
	1733		5115	73	,	30.339	0.596	2	21.952	1.00	96.63	
	1734		 <u>-</u> -	73	7	31.484	0.264	1 1	22.928	1.00	95.49	
35	1735				7	32.804	-0.094	1	22.260	1.00	94.69	+
	1736				 7	32.864	-0.450	3	20.917	1.00	94.73	
	1737				7	33.984	-0.13	6	23.011	1.00	94.55	
40	1738				7	34.076	-0.84	6	20.323	1.00	94.3	
	1739		<u> </u>		37	35.203	-0.52	8	22.428		94.7	
	174	<u> </u>	-		37	35.247	-0.88	5	21.083			
	174	<u> </u>			37	29.034	0.81	1	22.732			
45	174				37	28.105	0.00)3	22.647			
	174				38	28.978	1.91	17	23.474			
	174		A GL		38	27.801	2.2	79	24.269		- 	
50	174		B GL		38	27.975	3.7	16	24.85			
	174		G GL		38	27.106	4.0	83	26.12			
	ļ		D GL		738	27.583	5.3	47	26.90			
	17				738	26.990	6.4	29	26.80			
5.	·				738	28.649	5.1	90	27.69	7 1.0	0 104.	42

			TURE COOR							
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	1751	С	GLN	738	26.573	2.160	23.346	1.00	103.16	Α
	1752	0	GLN	738	25.699	1.328	23.592	1.00	103.35	Α
10	1753	N	THR	739	26.519	2.936	22.268	1.00	104.30	Α
	1754	CA	THR	739	25.366	2.839	21.377	1.00	105.68	Α
	1755	СВ	THR	739	25.511	3.778	20.162	1.00	105.48	Α
15	1756	OG1	THR	739	25.991	5.052	20.613	1.00	106.89	Α
	1757	CG2	THR	739	24.153	3.998	19.494	1.00	105.18	Α
	1758	С	THR	739	25.164	1.375	20.940	1.00	106.67	Α
	1759	0	THR	739	24.187	0.754	21.346	1.00	107.32	Α
20	1760	N	PHE	740	26.085	0.808	20.161	1.00	107.75	Α
	1761	CA	PHE	740	25.950	-0.590	19.719	1.00	108.45	Α
	1762	СВ	PHE	740	27.286	-1.127	19.209	1.00	108.59	Α
25	1763	CG	PHE	740	27.268	-2.597	18.882	1.00	108.29	Α
	1764	CD1	PHE	740	26.881	-3.041	17.620	1.00	108.66	Α
	1765	CD2	PHE	740	27.671	-3.534	19.826	1.00	108.06	Α
	1766	CE1	PHE	740	26.896	-4.404	17.307	1.00	108.89	Α
30	1767	CE2	PHE	740	27.689	-4.898	19.524	1.00	108.14	Α
	1768	CZ	PHE	740	27.306	-5.332	18.261	1.00	108.57	Α
	1769	С	PHE	740	25.428	-1.560	20.785	1.00	108.81	Α
35	1770	0	PHE	740	24.731	-2.519	20.468	1.00	108.65	Α
	1771	N	LEU	741	25.797	-1.336	22.042	1.00	109.39	Α
	1772	CA	LEU	741	25.322	-2.207	23.108	1.00	110.49	Α
40	1773	СВ	LEU	741	26.425	-2.500	24.115	1.00	109.37	Α
40	1774	CG	LEU	741	27.685	-3.170	23.590	1.00	108.46	Α
	1775	CD1	LEU	741	28.582	-3.425	24.770	1.00	108.19	Α
	1776	CD2	LEU	741	27.365	-4.469	22.876	1.00	108.56	Α
45	1777	С	LEU	741	24.182	-1.518	23.822	1.00	112.02	Α
	1778	0	LEU	741	24.322	-1.081	24.963	1.00	112.34	Α
	1779	N	ASP	742	23.056	-1.419	23.128	1.00	113.82	Α
50	1780	CA	ASP	742	21.864	-0.782	23.665	1.00	115.47	Α
50	1781	СВ	ASP	742	22.182	0.625	24.156	1.00	116.03	Α
	1782	CG	ASP	742	20.959	1.333	24.685	1.00	117.14	Α
	1783	OD1	ASP	742	21.000	2.572	24.835	1.00	117.82	Α
55	1784	OD2	ASP	742	19.954	0.643	24.954	1.00	117.31	Α
	1785	С	ASP	742	20.805	-0.706	22.575	1.00	116.45	Α

TABLE 2 (continued)

							E 2 (co			Y DIFFE	ACTIO	N FRO	T MC	HE LIG	AND	
Γ	ATOMIC	STRU	CTURE	COORDIN F GRα IN C	ATE DAT	TA OE X WIT	TAINED H FLUTI	CASON	E PF	ROPION	ATE AN	ID A TI	F2 F	RAGM	EN I ATON	1
-	BINDI	NG DON	IAIN O	SIDUE	#		<	Y		Z	oc	C	В			
	MOTA	TYPE				20.6	49	0.323	+	21.916	1.0	00	116		A	_
	1786	0		ASP	742	20.0		-1.810	1	22.392	1.0	00	118	.04	<u>A</u>	
T	1787	N		LYS	743	19.0		-1.910	,	21.386	1.5	00		0.53	A	
10	1788	CA		LYS	743	18.4		-3.330	5	21.389	1.	00		0.38	<u>A</u>	
1	1789	СВ		LYS	743		709	-4.18	2	20.127	1.	00	12	1.19	<u>A</u>	
Ī	1790	CG		LYS	743		195	-3.49	4	18.848	1	.00	12	1.91	A	\dashv
15	1791	CD		LYS	743	 	.211	-4.40	0	17.597	1	.00		2.04	A	
15	1792	CE		LYS	743			-5.25	66	17.431	1	.00	12	2.03		
	1793	NZ		LYS			.987	-0.87		21.627		.00	11	19.72		
	1794	C		LYS	743		2.930	-0.4		20.688	3	1.00	1	19.76		<u> </u>
20	1795	0		LYS	743	<u> </u>	7.253	-0.4		22.88		1.00	1	20.14	├ ──	Α
	1796	N		THR	744		7.758	0.5		23.24	3	1.00	1	20.66		Α
	1797	C	4	THR	744		6.744		42	24.73		1.00	1	20.95		Α
	1798		В	THR	744		6.883	1	137	25.48	8	1.00	1	21.58		Α
25	1799	-+	31	THR	744		7.456		266	25.33	33	1.00	1	120.72		Α
	1800		32	THR	744		5.515		748	22.3	12	1.00		120.72		Α
	180		0	THR	744		16.910		489	22.1		1.00	1	121.13		Α
30	180	-+-	0	THR	744		15.952		.947	21.8		1.00	\top	120.51		Α
	180	_+_	N	MET	745		18.124			20.9	-+	1.00	1	119.90		A
	180		CA	MET	745		18.434		.075	20.9	-+	1.00	1	120.29		Α
	180		СВ	MET	745	·	19.936		3.371		+	1.00	_	120.4	1	Α
35	180		CG	MET	745	5	20.316		1.645		232	1.00	_	121.9	3	Α
	18		SD	MET	74	5	22.034		4.572		955	1.00	_	121.3	9	Α
	18		CE	MET	74	5	21.949		5.228		520	1.00	, 1	118.9	3	Α
40	,	09	<u> </u>	MET	74	5	17.988		2.79		800	1.00		119.4	0	Α
		10	-	MET	74	5	17.574		3.70		.109	1.00		117.5	59	Α
		311	N	SER	74	16	18.093		1.53		7.776	1.0		116.	37	A
	-	312	CA	SER	74	46	17.665		1.14		.664	1.0		116.	67	Α
4:	٠ 		CB	SER	7	46	16.156		1.30		3.490	1.0		117.	32	Α
		813	OG	SER	7	46	15.513	3	0.3		6.635	1.0		115	.59	Α
	-	814		SER	7	46	18.34		1.8		5.802	1.0		114	.80	Α
:	50	815	-	SER		746	17.67	9	2.5				00	114	.95	Α
	<u> </u>	816		ILE		747	19.66	8	1.8		6.627		00	113	3.53	Α
	L-	1817	CA	ILE		747	20.53	11			5.609	+	.00	113	3.48	A
	-	1818	CB			747	21.54	15			16.244 15.228		.00	11:	 3.56	A
	55	1819 1820	CG2			747	22.59	94	3.	816	13.220					

			TURE COOF							
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	1821	CG1	ILE	747	20.798	4.621	16.749	1.00	113.34	Α
	1822	CD1	ILE	747	21.491	5.322	17.880	1.00	113.67	Α
10	1823	С	ILE	747	21.238	1.158	15.051	1.00	112.59	Α
	1824	0	ILE	747	21.829	0.380	15.803	1.00	112.41	Α
	1825	Ν	GLU	748	21.146	0.974	13.738	1.00	111.41	Α
15	1826	CA	GLU	748	21.718	-0.186	13.061	1.00	110.45	Α
	1827	СВ	GLU	748	20.920	-0.492	11.819	1.00	112.15	Α
	1828	CG	GLU	748	19.542	-0.943	12.075	1.00	115.24	Α
	1829	CD	GLU	748	18.913	-1.396	10.796	1.00	117.08	Α
20	1830	OE1	GLU	748	19.522	-2.261	10.127	1.00	117.86	Α
	1831	OE2	GLU	748	17.825	-0.885	10.456	1.00	118.10	Α
	1832	С	GLU	748	23.161	-0.154	12.621	1.00	108.52	Α
25	1833	0	GLU	748	23.593	0.773	11.946	1.00	108.69	Α
	1834	N	PHE	749	23.891	-1.208	12.951	1.00	106.14	Α
	1835	CA	PHE	749	25.277	-1.304	12.545	1.00	103.42	Α
	1836	СВ	PHE	749	26.137	-1.709	13.739	1.00	102.12	Α
30	1837	CG	PHE	749	26.427	-0.574	14.688	1.00	100.46	Α
	1838	CD1	PHE	749	25.485	-0.142	15.620	1.00	99.45	Α
	1839	CD2	PHE	749	27.681	0.022	14.684	1.00	99.75	Α
35	1840	CE1	PHE	749	25.793	0.876	16.522	1.00	98.95	Α
	1841	CE2	PHE	749	27.999	1.034	15.576	1.00	99.15	Α
	1842	CZ	PHE	749	27.061	1.449	16.506	1.00	98.78	Α
	1843	С	PHE	749	25.366	-2.336	11.424	1.00	102.03	Α
40	1844	0	PHE	749	24.849	-3.444	11.552	1.00	101.37	Α
	1845	N	PRO	750	26.038	-1.998	10.306	1.00	101.19	Α
	1846	CD	PRO	750	27.100	-0.995	10.107	1.00	101.23	Α
45	1847	CA	PRO	750	26.090	-3.003	9.250	1.00	100.72	Α
	1848	СВ	PRO	750	26.774	-2.262	8.113	1.00	99.98	Α
ļ	1849	CG	PRO	750	27.812	-1.500	8.837	1.00	100.74	Α
	1850	С	PRO	750	26.859	-4.235	9.708	1.00	100.57	Α
50	1851	0	PRO	750	27.192	-4.365	10.885	1.00	100.03	A
	1852	N	GLU	751	27.145	-5.131	8.766	1.00	100.58	A
Ì	1853	CA	GLU	751	27.847	-6.379	9.056	1.00	100.49	Α
55	1854	СВ	GLU	751	27.693	-7.331	7.875	1.00	101.63	Α
	1855	CG	GLU	751	27.095	-8.689	8.227	1.00	103.13	Α

TABLE 2 (continued)

	ATOMI BINDI	C STRUC	TURE COOR AIN OF GRa I	DINATE DA N COMPLE	TA OBTAINE X WITH FLU	D FROM X	RAY DIFFR PROPIONA	ACTION FI	TIF2 FRAG	VIEINI
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
,	1856	CD	GLU	751	28.000	-9.557	9.106	1.00	105.13	A
	1857	OE1	GLU	751	29.247	-9.505	8.971	1.00	106.54	A
10	1858	OE2	GLU	751	27.449	-10.321	9.922	1.00	104.89	A
	1859	C	GLU	751	29.328	-6.227	9.382	1.00	99.40	Α
	1860	0	GLU	751	29.791	-6.650	10.444	1.00	98.23	A
15	1861	N	MET	752	30.074	-5.650	8.448	1.00	98.65	Α
	1862	CA	MET	752	31.494	-5.439	8.648	1.00	97.97	A
	1863	СВ	MET	752	32.015	-4.443	7.605	1.00	99.04	Α
	1864	CG	MET	752	33.487	-4.148	7.738	1.00	100.18	Α
20	1865	SD	MET	752	34.387	-5.685	7.901	1.00	101.15	A
	1866	CE	MET	752	34.323	-6.213	6.236	1.00	101.26	A
	1867	С	MET	752	31.717	-4.907	10.066	1.00	96.84	Α
25	1868	0	MET	752	32.232	-5.619	10.927	1.00	96.54	Α
	1869	N	LEU	753	31.299	-3.661	10.295	1.00	95.99	Α
	1870	CA	LEU	753	31.412	-2.979	11.591	1.00	94.98	Α
	1871	СВ	LEU	753	30.655	-1.645	11.555	1.00	93.18	Α
30	1872	CG	LEU	753	31.327	-0.282	11.406	1.00	91.40	Α
	1873	CD1	LEU	753	32.026	-0.142	10.073	1.00	90.81	A
	1874	CD2	LEU	753	30.256	0.774	11.527	1.00	91.13	Α
35	1875	С	LEU	753	30.841	-3.813	12.730	1.00	95.34	A
	1876	0	LEU	753	31.353	-3.790	13.854	1.00	94.92	A
	1877	N	ALA	754	29.756	-4.515	12.436	1.00	96.40	A
	1878	CA	ALA	754	29.087	-5.365	13.413	1.00	97.52	A
40	1879	СВ	ALA	754	28.056	-6.244	12.714	1.00	97.46	Α
	1880	С	ALA	754	30.127	-6.233	14.113	1.00	98.02	Α
	1881	0	ALA	754	30.257	-6.198	15.338	1.00	97.73	A
45	1882	N	GLU	755	30.864	-6.987	13.304	1.00	98.67	A
	1883	CA	GLU	755	31.921	-7.905	13.742	1.00	99.35	A
	1884	СВ	GLU	755	32.477	-8.629	12.536	1.00	100.91	A
	1885	CG	GLU	755	31.977	-10.010	12.322	1.00	103.15	A
50	1886	CD	GLU	755	32.582	-10.587	11.074	1.00	104.45	A
	1887	OE1	GLU	755	33.424	-9.892	10.461	1.00	105.05	A
	1888	OE2	GLU	755	32.222	-11.724	10.705	1.00	105.40	A
55	1889	С	GLU	755	33.116	-7.305	14.467	1.00	98.62	A
	1890	0	GLU	755	33.579	-7.841	15.476	1.00	98.37	A

			TURE COOF AIN OF GRα							
5	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
	1891	N	ILE	756	33.640	-6.227	13.892	1.00	97.94	Α
	1892	CA	ILE	756	34.804	-5.512	14.401	1.00	97.06	Α
10	1893	СВ	ILE	756	35.249	-4.470	13.376	1.00	95.95	Α
	1894	CG2	ILE	756	36.513	-3.783	13.830	1.00	95.40	Α
	1895	CG1	ILE	756	35.484	-5.154	12.036	1.00	94.93	Α
15	1896	CD1	ILE	756	35.420	-4.204	10.888	1.00	95.21	Α
	1897	С	ILE	756	34.544	-4.832	15.740	1.00	97.25	Α
	1898	0	ILE	756	35.461	-4.693	16.556	1.00	97.09	Α
	1899	N	ILE	757	33.304	-4.387	15.960	1.00	97.46	А
20	1900	CA	iLE	757	32.953	-3.754	17.227	1.00	98.19	Α
	1901	СВ	ILE	757	31.636	-2.904	17.129	1.00	97.65	Α
	1902	CG2	ILE	757	31.194	-2.467	18.522	1.00	97.21	Α
25	1903	CG1	ILE	757	31.890	-1.625	16.312	1.00	97.77	Α
	1904	CD1	ILE	757	30.718	-1.146	15.454	1.00	97.25	Α
	1905	С	ILE	757	32.805	-4.872	18.265	1.00	99.15	Α
	1906	0	ILE	757	33.306	-4.746	19.382	1.00	99.19	Α
30	1907	N	THR	758	32.141	-5.968	17.884	1.00	100.27	Α
	1908	CA	THR	758	31.964	-7.130	18.768	1.00	101.43	Α
	1909	СВ	THR	758	31.082	-8.230	18.101	1.00	101.61	Α
35	1910	OG1	THR	758	31.053	-8.021	16.686	1.00	101.89	Α
	1911	CG2	THR	758	29.660	-8.206	18.650	1.00	101.75	Α
	1912	С	THR	758	33.339	-7.733	19.066	1.00	102.09	Α
40	1913	0	THR	758	33.629	-8.149	20.188	1.00	101.89	Α
40	1914	N	ASN	759	34.175	-7.774	18.035	1.00	103.34	Α
	1915	CA	ASN	759	35.540	-8.289	18.108	1.00	105.16	Α
	1916	СВ	ASN	759	36.231	-8.027	16.760	1.00	105.72	Α
45	1917	CG	ASN	759	37.652	-8.573	16.687	1.00	106.18	Α
	1918	OD1	ASN	759	38.488	-8.313	17.556	1.00	105.89	Α
	1919	ND2	ASN	759	37.934	-9.320	15.625	1.00	106.34	Α
5 0	1920	С	ASN	759	36.288	-7.557	19.223	1.00	106.31	Α
50	1921	0	ASN	759	36.597	-8.120	20.273	1.00	106.83	Α
	1922	N	GLN	760	36.542	-6.283	18.957	1.00	107.80	Α
	1923	CA	GLN	760	37.273	-5.351	19.815	1.00	109.24	Α
55	1924	СВ	GLN	760	37.375	-4.032	19.067	1.00	109.55	Α
	1925	CG	GLN	760	38.163	-4.174	17.815	1.00	110.53	Α

TABLE 2 (continued)

	ATOMIC BINDI	STRUC NG DOMA	TURE COORD AIN OF GRA IN	COMPLE)	TABLE 2 (CC TA OBTAINED X WITH FLUT				B B	ATOM
t	MOTA	ATOM TYPE	RESIDUE	#	Х	Y	Z			
-	1926	CD	GLN	760	39.548	-4.664	18.132	1.00	111.49	A A
-	1927	OE1	GLN	760	39.918	-5.791	17.804	1.00	111.90	
}	1928	NE2	GLN	760	40.323	-3.823	18.806	1.00	112.26	A
ŀ	1929	C	GLN	760	36.782	-5.052	21.223	1.00	109.82	
	1930	0	GLN	760	37.575	-4.916	22.161	1.00	108.95	
	1931	N	ILE	761	35.468	-4.924	21.334	1.00	111.38	
i	1932	CA	ILE	761	34.793	-4.577	22.573	1.00	113.13	
	1933	СВ	ILE	761	33.247	-4.839	22.414	1.00	112.25	
	1934	CG2	ILE	761	32.949	-6.322	22.323	1.00	112.15	
0	1935	CG1	ILE	761	32.470	-4.200	23.561	1.00	111.65	A
	1936	CD1	ILE	761	32.594	-4.922	24.877	1.00	111.27	A
	1937	C	ILE	761	35.364	-5.187	23.862	1.00	114.87	
	1938	0	ILE	761	35.448	-4.502	24.885	1.00	115.06	A
25	1939	N	PRO	762	35.787	-6.461	23.834	1.00	116.56	A
	1940	CD	PRO	762	35.597	-7.519	22.831	1.00	116.88	- A
	1941	CA	PRO	762	36.330	-7.031	25.069	1.00	117.98	A
30	1942	СВ	PRO	762	36.454	-8.516	24.737	1.00	117.53	A
	1943	CG	PRO	762	35.390	-8.723	23.703	1.00	117.09	- ^
	1944	C	PRO	762	37.671	-6.424	25.465	1.00	119.34	1 A
	1945	+	PRO	762	37.813	-5.854	26.545	1.00	119.13	A
35	1946	+	LYS	763	38.649	-6.529	24.571	1.00	121.52	A
	1947		LYS	763	39.988	-6.025	24.853	1.00	123.89	A
	1948			763	41.025	-6.777		1.00	124.50	A
40	1949			763	41.377	-6.076		1.00	125.11	A
	1950			763	40.640	-6.658			125.37	-+
	1951			763	41.386	-7.881		1.00	126.09	
45	1952			763	40.789	-8.514			126.47	
43	1950			763	40.250	-4.519			125.24	
	1954			763	41.364	-4.077		1.00		+
	195		TYR	764	39.271	-3.728			107.00	
50	195			764	39.504	-2.28				
	195			764	38.628	-1.64				
	195	- -		764	39.451	-0.98				-
55		- -		764	39.575	-1.57			100.5	<u></u>
55	196			764	40.445	-1.06	4 19.71	8 1.00	129.5	^

	i		TURE COOF							
5	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
	1961	CD2	TYR	764	40.206	0.163	22.203	1.00	129.22	Α
	1962	CE2	TYR	764	41.085	0.687	21.243	1.00	129.70	Α
10	1963	CZ	TYR	764	41.203	0.061	20.006	1.00	129.81	Α
	1964	ОН	TYR	764	42.124	0.504	19.083	1.00	129.43	Α
	1965	С	TYR	764	39.221	-1.570	25.434	1.00	127.40	Α
15	1966	0	TYR	764	38.978	-0.365	25.451	1.00	127.67	Α
	1967	N	SER	765	39.274	-2.330	26.525	1.00	127.42	Α
	1968	CA	SER	765	38.999	-1.807	27.858	1.00	127.37	Α
	1969	СВ	SER	765	37.552	-2.121	28.245	1.00	127.92	Α
20	1970	OG	SER	765	36.660	-1.906	27.166	1.00	128.95	Α
	1971	С	SER	765	39.908	-2.405	28.928	1.00	126.95	Α
	1972	0	SER	765	40.246	-1.738	29.908	1.00	127.13	Α
25	1973	N	ASN	766	40.290	-3.668	28.735	1.00	126.33	Α
	1974	CA	ASN	766	41.121	-4.420	29.682	1.00	125.68	Α
	1975	СВ	ASN	766	41.166	-5.899	29.271	1.00	126.48	Α
	1976	CG	ASN	766	39.788	-6.497	29.051	1.00	127.50	Α
30	1977	OD1	ASN	766	38.850	-6.221	29.803	1.00	128.09	Α
	1978	ND2	ASN	766	39.660	-7.339	28.026	1.00	127.55	Α
	1979	С	ASN	766	42.559	-3.958	29.915	1.00	124.54	Α
35	1980	0	ASN	766	42.970	-3.691	31.052	1.00	124.51	Α
	1981	N	GLY	767	43.324	-3.891	28.833	1.00	122.93	Α
	1982	CA	GLY	767	44.722	-3.509	28.903	1.00	120.80	Α
40	1983	С	GLY	767	45.416	-4.524	28.018	1.00	119.01	Α
40	1984	0	GLY	767	46.310	-5.259	28.440	1.00	118.79	Α
	1985	N	ASN	768	44.973	-4.564	26.773	1.00	117.24	Α
	1986	CA	ASN	768	45.504	-5.506	25.810	1.00	115.20	Α
45	1987	СВ	ASN	768	44.318	-6.304	25.223	1.00	116.68	Α
	1988	CG	ASN	768	43.414	-6.926	26.320	1.00	118.09	Α
	1989	OD1	ASN	768	43.106	-6.281	27.331	1.00	118.30	Α
50	1990	ND2	ASN	768	42.984	-8.171	26.105	1.00	118.06	Α
50	1991	С	ASN	768	46.307	-4.776	24.718	1.00	113.01	Α
ĺ	1992	0	ASN	768	47.374	-5.237	24.309	1.00	112.58	Α
	1993	N	ILE	769	45.805	-3.608	24.305	1.00	109.95	Α
55	1994	CA	ILE	769	46.388	-2.762	23.252	1.00	106.52	Α
	1995	СВ	ILE	769	45.260	-1.996	22.527	1.00	106.78	Α

TABLE 2 (continued)

	ATOMI BINDI	C STRUC	TURE COOR	DINATE DA	ATA OBTAINE X WITH FLU	D FROM X- TICASONE	RAY DIFFR PROPIONA	ACTION FI	ROM THE L	IGAND MENT
5	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
	1996	CG2	ILE	769	45.826	-1.167	21.379	1.00	106.69	Α
	1997	CG1	ILE	769	44.197	-2.994	22.053	1.00	106.81	A
10	1998	CD1	ILE	769	42.973	-2.369	21.435	1.00	106.29	Α
	1999	С	ILE	769	47.463	-1.732	23.664	1.00	103.81	A
	2000	0	ILE	769	47.264	-0.935	24.582	1.00	103.59	Α
15	2001	N	LYS	770	48.585	-1.735	22.947	1.00	100.30	Α
15	2002	CA	LYS	770	49.691	-0.824	23.218	1.00	96.45	Α
	2003	СВ	LYS	770	51.001	-1.579	23.072	1.00	95.81	A
	2004	CG	LYS	770	52.227	-0.777	23.354	1.00	94.18	Α
20	2005	CD	LYS	770	53.407	-1.532	22.808	1.00	94.37	Α
	2006	CE	LYS	770	54.692	-0.768	23.017	1.00	93.82	Α
	2007	NZ	LYS	770	55.821	-1.401	22.284	1.00	93.42	Α
25	2008	С	LYS	770	49.676	0.360	22.250	1.00	94.29	Α
	2009	0	LYS	770	50.038	0.228	21.082	1.00	94.06	Α
	2010	N	LYS	771	49.272	1.517	22.756	1.00	91.57	Α
	2011 1	CA	LYS	771	49.174	2.727	21.949	1.00	88.83	Α
30	2012	СВ	LYS	771	48.176	3.678	22.654	1.00	88.60	Α
	2013	CG	LYS	771	46.931	2.902	23.212	1.00	89.92	Α
	2014	CD	LYS	771	45.687	3.749	23.550	1.00	90.42	Α
35	2015	CE	LYS	771	45.830	4.541	24.848	1.00	92.04	Α
00	2016	NZ	LYS	771	45.010	5.799	24.853	1.00	92.59	Α
	2017	С	LYS	771	50.547	3.392	21.692	1.00	86.56	A
	2018	0	LYS	771	51.009	4.180	22.506	1.00	86.88	Α
40	2019	N	LEU	772	51.200	3.067	20.571	1.00	83.82	Α
	2020	CA	LEU	772	52.510	3.650	20.229	1.00	81.98	Α
	2021	СВ	LEU	772	52.970	3.194	18.838	1.00	80.07	Α
45	2022	CG	LEU	772	52.856	1.704	18.545	1.00	78.83	Α
	2023	CD1	LEU	772	53.382	1.346	17.159	1.00	78.33	Α
	2024	CD2	LEU	772	53.635	0.984	19.605	1.00	78.33	Α
	2025	С	LEU	772	52.424	5.176	20.219	1.00	82.19	А
50	2026	0	LEU	772	51.397	5.735	19.839	1.00	82.51	Α
	2027	N	LEU	773	53.492	5.857	20.620	1.00	81.85	Α
	2028	CA	LEU	773	53.476	7.320	20.617	1.00	81.81	Α
55	2029	СВ	LEU	773	53.261	7.871	22.027	1.00	80.64	Α
- *	2030	CG	LEU	773	51.990	7.525	22.798	1.00	79.78	А

TABLE 2 (continued)

			TURE COOR							
5	ATOM	ATOM TYPE	RESIDUE	#	×	Y	Z	occ	В	ATOM
	2031	CD1	LEU	773	52.296	7.672	24.267	1.00	80.42	Α
	2032	CD2	LEU	773	50.826	8.418	22.396	1.00	79.59	Α
10	2033	С	LEU	773	54.786	7.878	20.082	1.00	82.31	Α
	2034	0	LEU	773	55.849	7.320	20.341	1.00	82.88	Α
	2035	N	PHE	774	54.705	8.972	19.331	1.00	82.39	Α
15	2036	CA	PHE	774	55.895	9.612	18.798	1.00	82.78	Α
	2037	СВ	PHE	774	55.538	10.531	17.630	1.00	80.87	Α
	2038	CG	PHE	774	55.321	9.799	16.353	1.00	78.91	Α
	2039	CD1	PHE	774	56.395	9.479	15.539	1.00	78.24	Α
20	2040	CD2	PHE	774	54.064	9.292	16.038	1.00	78.78	Α
	2041	CE1	PHE	774	56.226	8.654	14.428	1.00	78.15	Α
	2042	CE2	PHE	774	53.881	8.465	14.931	1.00	78.23	Α
25	2043	CZ	PHE	774	54.966	8.143	14.127	1.00	78.32	Α
	2044	С	PHE	774	56.498	10.406	19.933	1.00	84.83	Α
	2045	0	PHE	774	57.704	10.639	19.968	1.00	84.81	Α
	2046	N	HIS	775	55.638	10.796	20.873	1.00	88.32	Α
30	2047	CA	HIS	775	56.039	11.578	22.041	1.00	91.73	A
	2048	СВ	HIS	775	55.558	13.012	21.895	1.00	90.90	Α
	2049	CG	HIS	775	55.970	13.634	20.612	1.00	90.80	Α
35	2050	CD2	HIS	775	55.263	14.275	19.656	1.00	90.67	Α
	2051	ND1	HIS	775	57.265	13.551	20.143	1.00	90.62	Α
	2052	CE1	HIS	775	57.333	14.107	18.950	1.00	91.01	Α
	2053	NE2	HIS	775	56.131	14.554	18.629	1.00	91.35	Α
40	2054	С	HIS	775	55.506	11.026	23.340	1.00	94.76	Α
	2055	0	HIS	775	54.304	10.790	23.480	1.00	94.90	Α
	2056	N	GLN	776	56.398	10.841	24.303	1.00	98.84	Α
45	2057	CA	GLN	776	55.996	10.334	25.601	1.00	103.31	Α
	2058	СВ	GLN	776	57.179	9.633	26.291	1.00	104.45	Α
	2059	CG	GLN	776	58.582	10.114	25.886	1.00	106.57	Α
	2060	CD	GLN	776	58.999	11.424	26.551	1.00	108.35	Α
50	2061	OE1	GLN	776	58.837	12.508	25.981	1.00	108.79	Α
	2062	NE2	GLN	776	59.538	11.323	27.767	1.00	108.32	Α
	2063	С	GLN	776	55.384	11.412	26.511	1.00	105.64	Α
55	2064	0	GLN	776	54.217	11.295	26.883	1.00	106.06	Α
	2065	N	LYS	777	56.149	12.466	26.822	1.00	108.50	A

TABLE 2 (continued)

	ATOM! BIND!	IC STRUC	TURE COOR AIN OF GRa I	DINATE DA	TA OBTAINE X WITH FLU	D FROM X	RAY DIFFR	ACTION F	ROM THE L	IGAND MENT
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
	2066	CA	LYS	777	55.725	13.569	27.721	1.00	111.14	Α
	2067	СВ	LYS	777	55.127	14.778	26.940	1.00	111.13	Α
10	2068	CG	LYS	777	55.167	16.163	27.704	1.00	111.26	Α
	2069	CD	LYS	777	53.761	16.804	27.916	1.00	110.94	Α
	2070	CE	LYS	777	53.775	18.216	28.568	1.00	110.88	Α
15	2071	NZ	LYS	777	54.016	18.255	30.049	1.00	110.23	Α
	2072	С	LYS	777	54.728	13.077	28.778	1.00	112.33	Α
	2073	0	LYS	777	53.497	13.179	28.558	1.00	112.91	Α
	2074	ОХТ	LYS	777	55.202	12.561	29.818	1.00	113.31	Α
20	2075	СВ	LYS	740	36.212	-17.177	16.526	1.00	126.78	В
	2076	CG	LYS	740	36.506	-17.638	17.979	1.00	128.08	В
	2077	CD	LYS	740	37.327	-18.909	18.063	1.00	129.35	В
25	2078	CE	LYS	740	38.818	-18.624	18.192	1.00	129.72	В
	2079	NZ	LYS	740	39.630	-19.761	17.686	1.00	130.22	В
	2080	С	LYS	740	37.246	-15.433	15.072	1.00	124.52	В
	2081	0	LYS	740	37.988	-14.994	14.192	1.00	124.88	В
30	2082	N	LYS	740	38.637	-16.592	16.502	1.00	126.10	В
	2083	CA	LYS	740	37.432	-16.814	15.655	1.00	125.59	В
	2084	N	GLU	741	36.239	-14.769	15.618	1.00	122.85	В
35	2085	CA	GLU	741	35.871	-13.404	15.324	1.00	120.66	В
	2086	СВ	GLU	741	36.304	-12.556	16.511	1.00	121.44	В
	2087	CG	GLU	741	35.820	-13.120	17.844	1.00	121.77	В
	2088	CD	GLU	741	36.524	-14.406	18.271	1.00	122.23	В
40	2089	OE1	GLU	741	37.767	-14.406	18.439	1.00	122.26	В
	2090	OE2	GLU	741	35.811	-15.408	18.452	1.00	121.76	В
	2091	С	GLU	741	36.317	-12.740	14.032	1.00	118.57	В
45	2092	0	GLU	741	37.480	-12.798	13.620	1.00	118.23	В
	2093	N	ASN	742	35.345	-12.103	13.398	1.00	116.10	В
	2094	CA	ASN	742	35.600	-11.375	12.184	1.00	113.26	В
	2095	СВ	ASN	742	36.529	-10.220	12.514	1.00	114.33	В
50	2096	CG	ASN	742	36.603	-9.208	11.418	1.00	115.13	В
	2097	OD1	ASN	742	37.244	-8.171	11.572	1.00	116.52	В
	2098	ND2	ASN	742	35.948	-9.494	10.297	1.00	114.81	В
55	2099	С	ASN	742	36.204	-12.247	11.094	1.00	110.51	В
	2100	0	ASN	742	37.313	-11.999	10.623	1.00	110.08	В

	1		TURE COOR							
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	2101	N	ALA	743	35.473	-13.285	10.702	1.00	106.82	В
	2102	CA	ALA	743	35.952	-14.143	9.640	1.00	102.91	В
10	2103	СВ	ALA	743	35.161	-15.450	9.610	1.00	103.22	В
	2104	С	ALA	743	35.745	-13.344	8.355	1.00	100.03	В
	2105	0	ALA	743	36.397	-13.611	7.345	1.00	99.90	В
15	2106	N	LEU	744	34.861	-12.344	8.400	1.00	95.91	В
	2107	CA	LEU	744	34.588	-11.513	7.224	1.00	92.30	В
	2108	СВ	LEU	744	33.374	-10.603	7.455	1.00	91.74	В
	2109	CG	LEU	744	32.438	-10.333	6.259	1.00	91.66	В
20	2110	CD1	LEU	744	31.463	-9.223	6.623	1.00	91.11	В
	2111	CD2	LEU	744	33.221	-9.924	5.023	1.00	92.05	В
	2112	C	LEU	744	35.793	-10.662	6.779	1.00	90.60	В
25	2113	0	LEU	744	35.905	-10.346	5.596	1.00	90.25	В
	2114	N	LEU	745	36.680	-10.274	7.695	1.00	87.95	В
	2115	CA	LEU	745	37.872	-9.492	7.312	1.00	85.36	В
	2116	СВ	LEU	745	38.474	-8.746	8.502	1.00	84.07	В
30	2117	CG	LEU	745	38.669	-7.237	8.665	1.00	82.29	В
	2118	CD1	LEU	745	39.514	-7.118	9.916	1.00	80.83	В
	2119	CD2	LEU	745	39.362	-6.537	7.497	1.00	80.58	В
<i>35</i>	2120	С	LEU	745	38.921	-10.486	6.839	1.00	84.43	В
	2121	0	LEU	745	39.672	-10.226	5.894	1.00	84.16	В
	2122	N	ARG	746	38.987	-11.616	7.541	1.00	83.85	В
	2123	CA	ARG	746	39.926	-12.673	7.209	1.00	83.05	В
40	2124	СВ	ARG	746	39.707	-13.898	8.097	1.00	83.28	В
	2125	CG	ARG	746	40.511	-15.126	7.673	1.00	84.87	В
	2126	CD	ARG	746	40.606	-16.167	8.792	1.00	86.65	В
45	2127	NE	ARG	746	41.854	-16.040	9.554	1.00	89.65	В
	2128	CZ	ARG	746	41.934	-15.874	10.874	1.00	90.19	В
	2129	NH1	ARG	746	40.829	-15.809	11.618	1.00	90.02	В
50	2130	NH2	ARG	746	43.128	-15.766	11.455	1.00	88.90	В
50	2131	С	ARG	746	39.689	-13.043	5.768	1.00	82.22	В
	2132	0	ARG	746	40.614	-13.204	4.998	1.00	82.49	В
	2133	N	TYR	747	38.428	-13.155	5.409	1.00	82.19	В
55	2134	CA	TYR	747	38.059	-13.508	4.058	1.00	82.92	В
	2135	СВ	TYR	747	36.555	-13.717	4.010	1.00	82.63	В

TABLE 2 (continued)

Г	ATOMI	C STRUC	TURE COORD		TABLE 2 (C		RAY DIFFRA	ACTION FR	OM THE LIC TIF2 FRAGN	EAND
	BINDI	NG DOM	TURE COORD AIN OF GRa IN	COMPLE	WITH FLUT		Z	occ	В	ATOM
, -	ATOM	ATOM TYPE	RESIDUE	#	X	Y				
ŀ	0126	CG	TYR	747	36.065	-13.789	2.616	1.00	82.87	B
-	2136	CD1	TYR	747	36.594	-14.724	1.734	1.00	83.81	B
10	2137	CE1	TYR	747	36.209	-14.756	0.422	1.00	84.67	В
	2138	CD2	TYR	747	35.130	-12.884	2.147	1.00	82.83	B
	2139	CE2	TYR	747	34.732	-12.903	0.833	1.00	84.05	B
	2140	CZ	TYR	747	35.276	-13.840	-0.026	1.00	85.10	B
15	2141	OH	TYR	747	34.880	-13.863	-1.336	1.00	86.88	B
	2142	C	TYR	747	38.479	-12.448	3.022	1.00	83.86	B
	2143	0	TYR	747	38.943	-12.768	1.917	1.00	84.05	B
20	2144	N	LEU	748	38.296	-11.189	3.414	1.00	84.91	B
	2145	CA	LEU	748	38.593	-9.994	2.622	1.00	85.00	B
	2146	CB	LEU	748	38.142	-8.763	3.391	1.00	85.05	В
	2147	CG	LEU	748	36.733	-8.194	3.274	1.00	84.64	В
<i>2</i> 5	2148	CD1	LEU	748	36.515	-7.239	4.426	1.00	85.29	В
	2149		LEU	748	36.573	-7.473	1.947	1.00	83.89	В
	2150	CD2	LEU	748	40.063	-9.807	2.299	1.00	85.69	В
30	2151	C	LEU	748	40.429	-9.385	1.197	1.00	85.46	В
-	2152		LEU	749	40.886	-10.089	3.294	1.00	87.36	В
	2153	-	LEU	749	42.329	-9.958	3.191	1.00	90.50	В
	2154	+		749	42.948	-10.171	4.574	1.00	87.67	В
35	2155			749	42.539	-9.094	5.578	1.00	85.91	В
	2156			749	43.126	-9.325	6.963	1.00	84.27	В
	2157			749	43,012	-7.775	5.016	1.00	83.58	В
40	2158			749	42.971	-10.913	3 2.199	1.00	94.62	
••	2159		LEU	749	44.057	-10.64	5 1.683	1.00	95.29	В
	2160			750	42.293	-12.01	0 1.906	1.00	99.41	В
	216			750	42.859	-13.00	7 1.02	1.00	103.90	
45	216			750	42.303	-14.36	2 1.50	2 1.00	103.66	
	216			750	10 705	-14.68	6 2.95	7 1.00	103.87	
	216	- +		750		-15.66	3.17	8 1.00	103.14	
50	216			750	10.047	-13.94	3.88	5 1.00	104.73	3 B
-	216			750		-12.8	11 -0.53	1.00	108.04	4 B
	216		ASP	750			- 	1.00	108.7	
	216		ASP	750			58 -1.16	1.00) 112.2	0 B
55	<u> </u>		LYS	75				18 1.00	117.1	1 B
	21	70 C	A LYS	/5	41.071					

			TURE COOP							
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	2171	СВ	LYS	751	40.158	-12.770	-2.987	1.00	117.68	В
	2172	CG	LYS	751	39.095	-12.327	-1.933	1.00	118.08	В
10	2173	CD	LYS	751	39.319	-10.912	-1.354	1.00	118.35	В
	2174	CE	LYS	751	38.613	-9.832	-2.158	1.00	118.66	В
	2175	NZ	LYS	751	37.151	-10.073	-2.164	1.00	118.89	В
15	2176	С	LYS	751	41.736	-10.959	-3.494	1.00	120.57	В
	2177	0	LYS	751	40.815	-10.163	-3.467	1.00	120.77	В
	2178	N	ASP	752	42.787	-10.662	-4.272	1.00	124.55	В
	2179	CA	ASP	752	42.641	-9.379	-5.042	1.00	128.27	В
20	2180	СВ	ASP	752	43.242	-8.168	-4.270	1.00	128.97	В
	2181	CG	ASP	752	42.370	-6.877	-4.391	1.00	130.06	В
	2182	OD1	ASP	752	42.081	-6.432	-5.529	1.00	130.65	В
25	2183	OD2	ASP	752	41.975	-6.299	-3.348	1.00	130.15	В
	2184	С	ASP	752	43.041	-9.284	-6.550	1.00	129.74	В
	2185	0	ASP	752	42.531	-8.403	-7.257	1.00	130.16	В
30	2186	N	ASP	753	43.903	-10.186	-7.031	1.00	131.88	В
30	2187	CA	ASP	753	44.382	-10.237	-8.438	1.00	132.79	В
	2188	СВ	ASP	753	44.786	-11.700	-8.767	1.00	133.26	В
	2189	CG	ASP	753	45.584	-11.841	-10.074	1.00	133.42	В
35	2190	OD1	ASP	753	44.982	-11.747	-11.168	1.00	133.48	В
	2191	OD2	ASP	753	46.815	-12.067	-10.003	1.00	133.16	В
	2192	С	ASP	753	43.364	-9.707	-9.474	1.00	133.27	В
	2193	0	ASP	753	43.309	-8.468	-9.660	1.00	133.47	В
40	2194	охт	ASP	753	42.624	-10.518	-10.079	1.00	133.68	В
	2195	СВ	LEU	525	40.004	46.082	16.396	1.00	136.92	D
	2196	CG	LEU	525	39.293	45.409	15.212	1.00	137.30	D
45	2197	CD1	LEU	525	39.125	46.375	14.046	1.00	136.87	D
	2198	CD2	LEU	525	40.098	44.179	14.790	1.00	137.28	D
	2199	С	LEU	525	37.974	47.434	17.108	1.00	135.85	D
	2200	0	LEU	525	37.316	46.395	17.075	1.00	136.26	D
50	2201	N	LEU	525	40.125	47.532	18.398	1.00	136.62	D
	2202	CA	LEU	525	39.512	47.393	17.042	1.00	136.44	D
	2203	N	PRO	526	37.390	48.641	17.246	1.00	134.93	D
55	2204	CD	PRO	526	38.029	49.714	18.037	1.00	134.90	D
Ì	2205	CA	PRO	526	35.929	48.780	17.315	1.00	133.52	D

									/nt	(hauad)									٦
					COORDI		TAI	BLE 2	(cont	inued)	x-RA	Y DIFF	RAC	TION	RO	M THE	LIGA	ND NT	
Г		OMIC	STRUC	TURE	COORDI	NATE DA	ATA(VV X=	OBTAI /ITH F	LUTIC	ASON	E PF	OPIO	VATE	AND	4 TIF	2 FR	TA	TOM	-
1	Е	SINDIN	IG DOM			#	T	X	T	Y		Z		occ		Б	1		
5	ATC	MC	ATOM TYPE	RES	IDUE	#					-	18.690	+-	1.00	+-1	34.35	1	D	
1				P	RO	526	35	5.730		49.375		18.709		1.00	+-	134.90	7	D	
1		06	CB		RO	526	36	6.830		50.415	-+-		-+-	1.00	+	131.67	7	D	
1		207	CG	1	RO	526	3	5.316		49.692		16.243		1.00	+	131.6	8	D	
10	22	208	<u> </u>	<u> </u>	PRO	526	3	5.089		50.875	-+-	16.50		1.00	+	129.1	5	D	
	2	209	0		GLN	527	3	35.017		49.16		15.06		1.00	-	126.4	6	D	
	-	210	N		GLN	527	1	34.438	3	50.02	+	14.03	+	1.00	-	126.5	52	D	
15	2	211	CA		GLN	527	1:	34.671		49.40	1	12.65		1.00		126.	83	D	
	2	2212	CB		GLN	527		34.62	6	47.89	94	12.63		1.00	+	127.		D	
	1	2213	CG		GLN	527	1	33.23	3	47.38	35	12.8		1.00	-+	126.	+	D	
		2214	CD		GLN	527	_	32.26	4	48.0	96	12.6		1.0		128	.15	C	
20		2215	OE1		GLN	527	+	33.11	7	46.1	43	13.3		1.0		124			5
		2216	NE2			527	-+	32.9	55	50.4	31	14.2				124	.28	[5
		2217	C		GLN	527		32.5	91	51.5	569	13.		1.0			1.31		5
25		2218			GLN	521		32.1	28	49.	533		798	1.0		 	7.75	-	D
	Γ	2219	N		LEU	52		30.6	84	49.	773		072		00	1	8.19	 	D
	Γ	2220		-+	LEU	52		30.4	168	50.	286		.503		00	┼	8.67	+	D
		222	1 CI	3	LEU	52		30.	502	49	.369		.727		.00		8.31	+-	D
30	Ī	222	2 C	G	LEU		 28	31.	761	48	.525		.715		.00		19.12	+-	D
		222	3 CI	21	LEU		 28	30.	435	50	.226	18	3.991		.00		14.85	+-	D
		222		D2	LEU		28	29	.995	50).749		4.125		.00		14.46		D
35	5	222	25	C	LEU		28	29	.206	5	1.591		4.558		1.00		111.72		D
		22	26	0	LEU		529	30	.275	5	0.61	4 1	2.84		1.00		107.57		D
		22	27	N	THR		529		3.727	5	1.50	1	1.83	1	1.00		107.5		D
		22	28	CA	THR		529		0.647	- [52.75	7	11.72	3	1.00		108.5		D
4	40	22	229	CB	THR		529		9.965	- -	53.80	9	11.03	38	1.00		106.7		
		2	230	OG1	THE	<u></u>	529		1.949		52.42	26	11.00	09	1.00		106.7		
		2	231	CG2	THE		529	-+-	9.655	-	50.6	97	10.5	19	1.00		104.8	-+	
	45	2	232	С	THE		529	-+-	30.679		50.2	81	9.9	69	1.00		104.0		
		2	233	0	THI		530		28.434		50.4	63	10.0	12	1.0		100.	+	
		1	2234	N	PR		530		27.22		51.2	206	10.3	399	1.0	+	97		
			2235	CD	PR				28.19		49.0	697	8.	785	1.0				D
	50	-	2236	CA	PF		530 53		26.67	+	49.	710	8.	679	1.0			.21	D
			2237	СВ	PF				26.34		51.	081	9	162		00		.89	D
		-	2238	CG		30	53		28.84	+	50	.242	7	.531		00		3.39	
	55	.	2239	С	PI	RO		30	28.79	+	51	.438	7	.261	1.	.00	9	2.57	L
		-	2240	0	P	RO	5	30	20.7	1									

TABLE 2 (continued)

			TURE COOF							
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	2241	N	THR	531	29.470	49.353	6.775	1.00	89.92	D
	2242	CA	THR	531	30.077	49.750	5.522	1.00	86.89	D
10	2243	СВ	THR	531	31.470	49.126	5.304	1.00	86.90	D
	2244	OG1	THR	531	31.412	47.706	5.492	1.00	86.36	D
	2245	CG2	THR	531	32.469	49.726	6.266	1.00	86.26	D
15	2246	C	THR	531	29.102	49.196	4.519	1.00	85.27	D
	2247	0	THR	531	28.306	48.316	4.846	1.00	85.29	D
	2248	N	LEU	532	29.142	49.701	3.301	1.00	82.89	D
	2249	CA	LEU	532	28.206	49.223	2.306	1.00	80.97	D
20	2250	СВ	LEU	532	28.380	50.042	1.047	1.00	79.96	D
	2251	CG	LEU	532	27.321	49.899	-0.032	1.00	79.61	D
	2252	CD1	LEU	532	25.947	49.459	0.495	1.00	79.10	D
25	2253	CD2	LEU	532	27.255	51.256	-0.674	1.00	79.67	D
	2254	С	LEU	532	28.357	47.725	2.018	1.00	80.18	D
	2255	0	LEU	532	27.367	47.000	1.884	1.00	80.38	D
30	2256	N	VAL	533	29.597	47.261	1.925	1.00	78.45	D
30	2257	CA	VAL	533	29.858	45.854	1.672	1.00	76.93	D
	2258	СВ	VAL	533	31.319	45.637	1.290	1.00	75.90	D
	2259	CG1	VAL	533	32.198	46.022	2.461	1.00	75.17	D
35	2260	CG2	VAL	533	31.556	44.189	0.891	1.00	75.29	D
	2261	С	VAL	533	29.583	45.085	2.964	1.00	76.53	D
	2262	0	VAL	533	29.442	43.862	2.963	1.00	76.16	D
	2263	N	SER	534	29.520	45.818	4.073	1.00	75.87	D
40	2264	CA	SER	534	29.273	45.220	5.383	1.00	75.27	D
	2265	СВ	SER	534	29.453	46.268	6.473	1.00	76.08	D
	2266	OG	SER	534	29.059	45.758	7.732	1.00	78.01	D
45	2267	С	SER	534	27.856	44.695	5.459	1.00	74.06	D
	2268	0	SER	534	27.574	43.601	5.941	1.00	73.87	D
	2269	N	LEU	535	26.963	45.531	4.978	1.00	73.15	D
	2270	CA	LEU	535	25.563	45.243	4.961	1.00	72.35	D
50	2271	СВ	LEU	535	24.859	46.543	4.681	1.00	71.21	D
	2272	CG	LEU	535	23.382	46.585	4.898	1.00	69.96	D
	2273	CD1	LEU	535	23.089	47.679	5.872	1.00	70.31	D
55	2274	CD2	LEU	535	22.712	46.857	3.603	1.00	69.87	D
	2275	С	LEU	535	25.298	44.234	3.861	1.00	72.57	D

TABLE 2 (continued)

l l	RINDI	NG DOMA	IN OF GRa I	ONATE DA	TA OBTAINE	TICASONE	PROPIONA	TE AND A	TIF2 FRAGM	MENT
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
ŀ	2276	0	LEU	535	24.392	43.407	3.954	1.00	73.83	D
-	2277	N	LEU	536	26.099	44.301	2.807	1.00	72.53	D
10	2278	CA	LEU	536	25.931	43.381	1.694	1.00	72.36	D
ŀ	2279	СВ	LEU	536	26.849	43.814	0.551	1.00	71.10	D
Ì	2280	CG	LEU	536	26.370	43.781	-0.901	1.00	69.77	D
	2281	CD1	LEU	536	25.018	44.439	-1.100	1.00	69.03	D
15	2282	CD2	LEU	536	27.415	44.504	-1.704	1.00	70.87	D
	2283	С	LEU	536	26.256	41.957	2.180	1.00	72.62	D
	2284	0	LEU	536	25.642	40.979	1.755	1.00	71.52	D
20	2285	N	GLU	537	27.210	41.845	3.092	1.00	73.92	D
	2286	CA	GLU	537	27.545	40.540	3.608	1.00	74.65	D
	2287	СВ	GLU	537	28.921	40.555	4.242	1.00	75.29	D
	2288	CG	GLU	537	29.255	39.278	4.954	1.00	78.75	D
25	2289	CD	GLU	537	30.683	39.277	5.451	1.00	81.31	D
	2290	OE1	GLU	537	31.079	38.285	6.108	1.00	82.53	D
	2291	OE2	GLU	537	31.407	40.268	5.177	1.00	80.17	D
30	2292	C	GLU	537	26.515	40.027	4.614	1.00	74.98	D
	2293	0	GLU	537	26.170	38.852	4.566	1.00	76.28	D
	2294	N	VAL	538	26.001	40.870	5.515	1.00	74.17	D
	2295	CA	VAL	538	25.034	40.334	6.481	1.00	72.78	D
35	2296	СВ	VAL	538	24.761	41.266	7.717	1.00	72.66	D
	2297	CG1	VAL	538	26.006	42.046	8.094	1.00	72.43	D
	2298	CG2	VAL	538	23.564	42.173	7.459	1.00	72.20	D
40	2299	C	VAL	538	23.680	39.951	5.898	1.00	72.50	D
	2300	1 0	VAL	538	22.906	39.274	6.572	1.00	72.58	D
	2300	N	ILE	539	23.375	40.364	4.666	1.00	71.88	D
4.5	2302	CA	ILE	539	22.085	40.005	4.067	1.00	71.03	D
45	2303	CB	ILE	539	21.374	41.207	3.399	1.00	70.22	D
	2303	CG2	+	539	21.461	42.433	4.285	1.00	70.64	D
	2304	 	ILE	539	21.997	41.492	2.033	1.00	69.87	D
50	2305		ILE	539	21.296	42.585	1.269	1.00	68.95	D
	2307		ILE	539	22.209	38.920	3.006	1.00	71.27	D
	2307		ILE	539	21.273	38.684	2.240	1.00	71.30	D
EE	2309		GLU	540	23.365	38.269	2.954	1.00	71.95	D
55	2310		GLU	540	23.598	37.216	1.980	1.00	73.04	D

TABLE 2 (continued)

			TURE COOF AIN OF GRα							
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	2311	СВ	GLU	540	25.062	36.776	2.025	1.00	73.24	D
	2312	CG	GLU	540	25.494	35.779	0.948	1.00	75.23	D
10	2313	CD	GLU	540	24.963	36.111	-0.445	1.00	77.05	D
	2314	OE1	GLU	540	24.820	37.315	-0.762	1.00	77.82	D
	2315	OE2	GLU	540	24.703	35.165	-1.225	1.00	76.49	D
15	2316	С	GLU	540	22.692	36.060	2.337	1.00	73.74	D
	2317	0	GLU	540	22.561	35.719	3.505	1.00	_ 74.01	D
	2318	N	PRO	541	21.993	35.496	1.355	1.00	75.38	D
	2319	CD	PRO	541	21.359	36.155	0.205	1.00	75.60	D
20	2320	CA	PRO	541	21.174	34.389	1.854	1.00	77.84	. D
	2321	СВ	PRO	541	20.270	34.029	0.671	1.00	77.22	D
	2322	CG	PRO	541	20.590	35.041	-0.424	1.00	76.96	D
25	2323	С	PRO	541	22.058	33.228	2.297	1.00	80.33	D
	2324	0	PRO	541	23.264	33.203	2.028	1.00	80.53	D
	2325	N	GLU	542	21.472	32.270	2.992	1.00	83.14	D
	2326	CA	GLU	542	22.262	31.149	3.446	1.00	86.12	D
30	2327	СВ	GLU	542	21.979	30.892	4.904	1.00	88.33	D
	2328	CG	GLU	542	20.557	30.563	5.158	1.00	92.41	D
	2329	CD	GLU	542	20.435	29.825	6.445	1.00	96.11	D
35	2330	OE1	GLU	542	21.234	30.135	7.359	1.00	97.98	D
	2331	OE2	GLU	542	19.555	28.944	6.546	1.00	97.94	D
	2332	С	GLU	542	21.913	29.929	2.617	1.00	86.19	D
	2333	0	GLU	542	20.767	29.780	2.193	1.00	86.63	D
40	2334	N	VAL	543	22.895	29.060	2.388	1.00	86.32	D
	2335	CA	VAL	543	22.674	27.871	1.570	1.00	86.78	D
	2336	СВ	VAL	543	23.891	26.926	1.557	1.00	87.17	D
45	2337	CG1	VAL	543	25.039	27.566	0.808	1.00	87.13	D
	2338	CG2	VAL	543	24.291	26.566	2.983	1.00	87.29	D
	2339	С	VAL	543	21.484	27.046	1.987	1.00	86.72	D
50	2340	0	VAL	543	21.296	26.740	3.160	1.00	86.85	D
50	2341	N	LEU	544	20.673	26.674	1.012	1.00	86.80	D
	2342	CA	LEU	544	19.520	25.858	1.312	1.00	87.62	D
	2343	СВ	LEU	544	18.229	26.624	1.018	1.00	87.72	D
55	2344	CG	LEU	544	17.996	27.129	-0.398	1.00	87.80	D
	2345	CD1	LEU	544	16.643	27.828	-0.472	1.00	86.38	D

TABLE 2 (continued)

	ATOMI BINDI	C STRUC	TURE COORI	DINATE DA	TA OBTAINE X WITH FLU	D FROM X-	RAY DIFFR PROPIONA	ACTION FF	ROM THE L	IGAND MENT
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	2346	CD2	LEU	544	19.120	28.074	-0.789	1.00	89.07	D
	2347	С	LEU	544	19.594	24.560	0.517	1.00	88.38	D
10	2348	0	LEU	544	19.826	24.568	-0.700	1.00	88.44	D
	2349	N	TYR	545	19.416	23.452	1.239	1.00	88.99	D
	2350	CA	TYR	545	19.479	22.099	0.689	1.00	88.20	D
15	2351	СВ	TYR	545	19.524	21.055	1.807	1.00	88.66	D
15	2352	CG	TYR	545	20.809	21.107	2.584	1.00	90.06	D
	2353	CD1	TYR	545	20.794	21.162	3.974	1.00	90.04	D
	2354	CE1	TYR	545	21.966	21.335	4.698	1.00	90.29	D
20	2355	CD2	TYR	545	22.040	21.210	1.927	1.00	91.31	D
	2356	CE2	TYR	545	23.225	21.382	2.642	1.00	92.00	D
	2357	CZ	TYR	545	23.177	21.452	4.034	1.00	91.41	D
25	2358	ОН	TYR	545	24.319	21.694	4.770	1.00	90.69	D
23	2359	С	TYR	545	18.373	21.743	-0.259	1.00	87.58	D
	2360	0	TYR	545	17.314	22.373	-0.286	1.00	87.17	D
	2361	N	ALA	546	18.630	20.686	-1.018	1.00	87.43	D
30	2362	CA	ALA	546	17.706	20.212	-2.027	1.00	87.23	D
	2363	СВ	ALA	546	18.491	19.655	-3.188	1.00	86.89	D
	2364	С	ALA	546	16.667	19.191	-1.578	1.00	87.25	D
35	2365	0	ALA	546	15.695	18.962	-2.292	1.00	88.37	D
00	2366	N	GLY	547	16.856	18.576	-0.415	1.00	86.70	D
	2367	CA	GLY	547	15.893	17.580	0.027	1.00	84.97	D
	2368	С	GLY	547	15.772	16.465	-1.001	1.00	84.36	D
40	2369	0	GLY	547	14.670	16.076	-1.389	1.00	84.24	D
	2370	N	TYR	548	16.914	15.955	-1.458	1.00	83.34	D
	2371	CA	TYR	548	16.942	14.882	-2.449	1.00	82.17	D
45	2372	СВ	TYR	548	18.166	15.024	-3.364	1.00	80.47	D
	2373	CG	TYR	548	18.223	14.157	-4.630	1.00	78.31	D
	2374	CD1	TYR	548	17.406	14.426	-5.733	1.00	77.47	D
	2375	CE1	TYR	548	17.579	13.748	-6.955	1.00	76.81	D
50	2376	CD2	TYR	548	19.206	13.165	-4.776	1.00	77.12	D
	2377	CE2	TYR	548	19.384	12.485	-5.987	1.00	76.61	D
	2378	cz	TYR	548	18.579	12.784	-7.072	1.00	76.85	D
55	2379	ОН	TYR	548	18.807	12.151	-8.275	1.00	76.36	D
	2380	С	TYR	548	17.026	13.547	-1.740	1.00	82.76	D

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5	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATON
	2381	0	TYR	548	17.520	13.440	-0.611	1.00	82.35	D
	2382	N	ASP	549	16.520	12.535	-2.419	1.00	83.15	D
)	2383	CA	ASP	549	16.562	11.184	-1.922	1.00	83.21	D;
	2384	СВ	ASP	549	15.230	10.485	-2.134	1.00	83.27	D
	2385	CG	ASP	549	15.216	.9.110	-1.531	1.00	83.93	D
	2386	OD1	ASP	549	16.305	8.643	-1.146	1.00	85.23	D
	2387	OD2	ASP	549	14.132	8.502	-1.443	1.00	84.20	D
	2388	С	ASP	549	17.609	10.556	-2.817	1.00	83.68	D
	2389	0	ASP	549	17.330	10.226	-3.971	1.00	83.55	D
	2390	N	SER	550	18.821	10.430	-2.298	1.00	84.19	D
	2391	CA	SER	550	19.920	9.853	-3.054	1.00	85.11	D
	2392	СВ	SER	550	21.225	10.584	-2.720	1.00	84.86	D
	2393	OG	SER	550	21.524	10.497	-1.335	1.00	85.47	D
	2394	С	SER	550	20.028	8.384	-2.686	1.00	85.74	D
	2395	0	SER	550	21.019	7.718	-2.992	1.00	85.66	D
	2396	N	SER	551	18.982	7.897	-2.023	1.00	86.44	D
	2397	CA	SER	551	18.902	6.515	-1.570	1.00	86.68	D
	2398	СВ	SER	551	17.908	6.387	-0.431	1.00	86.76	D
	2399	OG	SER	551	16.603	6.257	-0.965	1.00	88.21	D
	2400	C	SER	551	18.418	5.639	-2.696	1.00	86.60	D
	2401	0	SER	551	18.192	4.441	-2.527	1.00	86.16	D
	2402	N	VAL	552	18.212	6.235	-3.854	1.00	87.52	D
	2403	CA	VAL	552	17.744	5.444	-4.955	1.00	88.87	D
	2404	СВ	VAL	552	16.263	5.469	-4.935	1.00	88.89	D
	2405	CG1	VAL .	552	15.800	5.509	-3.488	1.00	88.42	D
	2406	CG2	VAL	552	15.778	6.674	-5.638	1.00	88.55	D
	2407	С	VAL	552	18.349	6.072	-6.192	1.00	89.48	D
	2408	0	VAL	552	18.434	7.303	-6.289	1.00	89.94	D
	2409	2	PRO	553	18.749	5.233	-7.166	1.00	90.53	D
	2410	CD	PRO	553	18.293	3.842	-7.338	1.00	91.20	D
	2411	CA	PRO	553	19.382	5.726	-8.389	1.00	91.54	D
	2412	СВ	PRO	553	19.267	4.570	-9.388	1.00	91.76	D
	2413	CG	PRO	553	18.260	3.673	-8.844	1.00	91.49	D
	2414	С	PRO	553	18.968	7.021	-8.977	1.00	92.07	D
	2415	0	PRO	553	17.865	7.522	-8.784	1.00	92.26	D

TABLE 2 (continued)

	ATOMI	C STRUC	TURE COORI	DINATE DA	TA OBTAINE X WITH FLU	D FROM X- TICASONE	RAY DIFFRA PROPIONA	ACTION FF TE AND A	ROM THE LIG	GAND MENT
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
	2416	N	ASP	554	19.915	7.570	-9.712	1.00	92.21	D
	2417	CA	ASP	554	19.671	8.819	-10.342	1.00	92.25	D
10	2418	СВ	ASP	554	20.943	9.625	-10.433	1.00	91.71	D
	2419	CG	ASP	554	21.565	9.814	-9.105	1.00	91.92	
	2420	OD1	ASP	554	20.807	9.769	-8.111	1.00	92.26	D
	2421	OD2	ASP	554	22.793	10.007	-9.047	1.00	91.66	D
15	2422	C	ASP	554	19.149	8.605	-11.701	1.00	92.49	D
	2423	0	ASP	554	19.017	7.491	-12.204	1.00	93.01	D
	2424	N	SER	555	18.841	9.728	-12.295	1.00	92.63	D
20	2425	CA	SER	555	18.365	9.750	-13.628	1.00	93.51	D
	2426	СВ	SER	555	17.024	9.031	-13.751	1.00	93.19	D
	2427	OG	SER	555	15.938	9.844	-13.371	1.00	93.50	D
	2428	C	SER	555	18.253	11.225	-13.787	1.00	94.69	D
25	2429	0	SER	555	17.974	11.959	-12.834	1.00	95.13	D
	2430	N	THR	556	18.534	11.675	-14.992	1.00	95.90	D
	2431	CA	THR	556	18.504	13.080	-15.220	1.00	96.67	D
30	2432	СВ	THR	556	18.659	13.418	-16.575	1.00	97.22	D
	2433	OG1	THR	556	19.705	12.608	-17.088	1.00	98.43	D
	2434	CG2	THR	556	19.003	14.886	-16.674	1.00	97.19	D
O.F.	2435	С	THR	556	17.242	13.616	-14.836	1.00	96.67	D
35	2436	0	THR	556	17.239	14.267	-13.831	1.00	96.78	D
	2437	N	TRP	557	16.198	13.399	-15.645	1.00	97.24	D
	2438	CA	TRP	557	14.885	13.878	-15.294	1.00	97.34	D
40	2439	СВ	TRP	557	13.843	12.915	-15.846	1.00	100.14	D
	2440	CG	TRP	557	13.864	13.048	-17.342	1.00	103.86	D
	2441	CD2	TRP	557	13.027	12.435	-18.291	1.00	105.46	D
45	2442	CE2	TRP	557	13.343	12.882	-19.587	1.00	106.20	D
,,	2443	CE3	TRP	557	11.906	11.550	-18.197	1.00	105.69	D
	2444		TRP	557	14.738	13.832	-18.082	1.00	104.90	D
	2445		TRP	557	14.464	13.754	-19.414	1.00	105.88	D
50	2446			557	12.747	12.485	-20.763	1.00	106.15	D
	2447			557	11.277	11.129	-19.365	1.00	105.93	D
	2448		TRP	557	11.674	11.619	-20.623	1.00	106.20	D
55	2449		TRP	557	15.061	13.885	-13.803	1.00	95.80	D
	2450		TRP	557	15.879	14.624	-13.353	1.00	95.83	D

TABLE 2 (continued)

2451 2452	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	AT
	''' -					_			'`'
2452	N	ARG	558	14.400	13.116	-12.985	1.00	93.50	
	CA	ARG	558	14.743	13.277	-11.573	1.00	91.63	
2453	СВ	ARG	558	15.415	12.048	-11.058	1.00	91.10	
2454	CG	ARG	558	15.020	11.954	-9.656	1.00	90.49	
2455	CD	ARG	558	14.884	10.562	-9.315	1.00	89.68	
2456	NE	ARG	558	15.970	10.187	-8.440	1.00	89.44	
2457	CZ	ARG	558	15.933	10.373	-7.130	1.00	89.73	
2458	NH1	ARG	558	14.861	10.929	-6.578	1.00	88.39	
2459	NH2	ARG	558	16.943	9.976	-6.368	1.00	89.50	
2460	С	ARG	558	15.577	14.447	-11.003	1.00	90.86	
2461	0	ARG	558	15.171	15.095	-10.053	1.00	90.88	
2462	N	ILE	559	16.756	14.695	-11.544	1.00	89.58	
2463	CA	ILE	559	17.604	15.729	-10.998	1.00	88.94	
2464	СВ	ILE	559	18.964	15.397	-11.261	1.00	88.55	
2465	CG2	ILE	559	19.823	16.584	-11.025	1.00	88.39	
2466	CG1	ILE	559	19.338	14.230	-10.403	1.00	88.44	
2467	CD1	ILE	559	20.792	14.151	-10.319	1.00	88.21	
2468	С	ILE	559	17.438	17.109	-11.513	1.00	88.86	
2469	0	ILE	559	17.733	18.112	-10.853	1.00	88.86	
2470	N	MET	560	17.098	17.147	-12.772	1.00	88.53	
2471	CA	MET	560	16.863	18.409	-13.360	1.00	88.39	
2472	СВ	MET	560	16.426	18.226	-14.761	1.00	88.54	
2473	CG	MET	560	17.550	17.945	-15.603	1.00	89.76	
2474	SD	MET	560	17.064	17.908	-17.282	1.00	92.87	
2475	CE	MET	560	18.550	18.420	-18.053	1.00	92.53	
2476	С	MET	560	15.653	18.747	-12.618	1.00	88.07	
2477	0	MET	560	15.393	19.883	-12.229	1.00	88.78	
2478	N	THR	561	14.867	17.727	-12.389	1.00	86.83	
2479	CA	THR	561	13.682	18.152	-11.800	1.00	85.30	
2480	СВ	THR	561	12.662	17.110	-11.851	1.00	84.89	
2481	OG1	THR	561	11.788	17.422	-12.945	1.00	84.68	
2482	CG2	THR	561	11.909	17.094	-10.585	1.00	84.42	
2483	C	THR	561	13.902	18.736	-10.448	1.00	84.31	
2484	0	THR	561	13.522	19.882	-10.225	1.00	84.37	

TABLE 2 (continued)

			TURE COOR							
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	2486	CA	THR	562	14.833	18.504	-8.251	1.00	82.17	D
	2487	СВ	THR	562	15.786	17.565	-7.420	1.00	82.07	D
10	2488	OG1	THR	562	17.047	17.455	-8.089	1.00	82.61	D
	2489	CG2	THR	562	15.185	16.154	-7.228	1.00	82.32	D
	2490	С	THR	562	15.475	19.901	-8.403	1.00	81.33	D
15	2491	0	THR	562	15.039	20.807	-7.712	1.00	82.35	D
	2492	N	LEU	563	16.442	20.097	-9.317	1.00	79.93	D
	2493	CA	LEU	563	17.134	21.413	-9.487	1.00	78.45	D
	2494	СВ	LEU	563	18.268	21.323	-10.557	1.00	77.66	D
20	2495	CG	LEU	563	19.514	20.947	-9.730	1.00	78.54	D
	2496	CD1	LEU	563	18.945	20.372	-8.463	1.00	79.05	D
	2497	CD2	LEU	563	20.458	19.923	-10.336	1.00	78.61	D
25	2498	С	LEU	563	16.264	22.641	-9.693	1.00	77.89	D
	2499	0	LEU	563	16.525	23.707	-9.131	1.00	77.49	D
	2500	N	ASN	564	15.211	22.470	-10.470	1.00	77.41	D
30	2501	CA	ASN	564	14.231	23.514	-10.738	1.00	76.89	D
30	2502	СВ	ASN	564	13.261	23.004	-11.770	1.00	75.58	D
	2503	CG	ASN	564	13.809	23.077	-13.162	1.00	74.85	D
	2504	OD1	ASN	564	15.013	23.104	-13.393	1.00	75.81	D
35	2505	ND2	ASN	564	12.922	23.088	-14.103	1.00	75.21	D
	2506	С	ASN	564	13.465	23.900	-9.473	1.00	76.70	D
	2507	0	ASN	564	13.204	25.076	-9.222	1.00	76.62	D
	2508	N	MET	565	13.062	22.901	-8.699	1.00	77.18	D
40	2509	CA	MET	565	12.367	23.187	-7.457	1.00	77.91	D
	2510	СВ	MET	565	12.112	21.901	-6.675	1.00	79.42	D
	2511	CG	MET	565	10.648	21.571	-6.452	1.00	81.29	D
45	2512	SD	MET	565	9.742	21.346	-7.996	1.00	83.79	D
	2513	CE	MET	565	8.275	22.311	-7.661	1.00	84.35	D
	2514	С	MET	565	13.367	24.047	-6.695	1.00	77.81	D
	2515	0	MET	565	13.056	25.148	-6.229	1.00	77.62	D
50	2516	N	LEU	566	14.592	23.542	-6.602	1.00	77.54	D
	2517	CA	LEU	566	15.623	24.263	-5.894	1.00	77.35	D
	2518	СВ	LEU	566	16.983	23.594	-6.052	1.00	76.46	D
55	2519	CG	LEU	566	17.908	24.447	-5.190	1.00	76.14	D
	2520	CD1	LEU	566	17.281	24.541	-3.813	1.00	76.45	D

			TURE COOF							
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	2521	CD2	LEU	566	19.301	23.887	-5.113	1.00	76.14	D
	2522	С	LEU	566	15.749	25.705	-6.346	1.00	78.03	D
10	2523	0	LEU	566	15.956	26.598	-5.524	1.00	78.22	D
	2524	N	GLY	567	15.644	25.925	-7.653	1.00	78.32	D
	2525	CA	GLY	567	15.766	27.264	-8.199	1.00	78.16	D
15	2526	O	GLY	567	14.644	28.156	-7.715	1.00	78.69	D
	2527	0	GLY	567	14.853	29.334	-7.410	1.00	78.69	D
	2528	N	GLY	568	13.451	27.572	-7.658	1.00	78.97	D
	2529	CA	GLY	568	12.291	28.295	-7.192	1.00	77.68	D
20	2530	С	GLY	568	12.574	28.751	-5.785	1.00	77.16	D
	2531	0	GLY	568	12.456	29.926	-5.460	1.00	78.00	D
	2532	N	ARG	569	12.983	27.846	-4.922	1.00	75.95	D
25	2533	CA	ARG	569	13.219	28.320	-3.589	1.00	76.63	D
	2534	СВ	ARG	569	13.493	27.128	-2.691	1.00	78.37	D
	2535	CG	ARG	569	12.355	26.113	-2.806	1.00	81.13	D
	2536	CD	ARG	569	12.650	24.904	-1.976	1.00	83.19	D
30	2537	NE	ARG	569	13.118	25.333	-0.668	1.00	84.03	D
	2538	CZ	ARG	569	14.210	24.856	-0.090	1.00	85.57	D
	2539	NH1	ARG	569	14.933	23.933	-0.712	1.00	85.65	D
35	2540	NH2	ARG	569	14.591	25.317	1.094	1.00	86.82	D
	2541	С	ARG	569	14.304	29.402	-3.504	1.00	76.48	D
	2542	0	ARG	569	14.198	30.301	-2.673	1.00	77.05	D
40	2543	N	GLN	570	15.307	29.353	-4.390	1.00	75.83	D
40	2544	CA	GLN	570	16.409	30.332	-4.394	1.00	74.43	D
	2545	СВ	GLN	570	17.633	29.763	-5.110	1.00	75.14	D
	2546	CG	GLN	570	18.513	28.845	-4.290	1.00	74.93	D
45	2547	CD	GLN	570	19.487	28.081	-5.164	1.00	74.79	D
	2548	OE1	GLN	570	20.479	27.532	-4.681	1.00	75.77	D
	2549	NE2	GLN	570	19.197	28.032	-6.463	1.00	73.98	D
	2550	С	GLN	570	16.112	31.684	-5.026	1.00	74.13	D
50	2551	0	GLN	570	16.736	32.687	-4.669	1.00	74.57	D
	2552	N	VAL	571	15.197	31.707	-5.994	1.00	72.68	D
	2553	CA	VAL	571	14.834	32.951	-6.664	1.00	71.57	D
55	2554	СВ	VAL	571	14.183	32.649	-8.039	1.00	71.29	D
	2555	CG1	VAL	571	13.528	33.895	-8.630	1.00	70.57	D

TABLE 2 (continued)

	ATOMIC	STRUC	TURE COORD AIN OF GRα IN	INATE DAT	'A OBTAINEL (WITH FLUT	CASONE F	ROPIONA	E AND A T	IF2 FRAGM	IENT
	ATOM	ATOM	RESIDUE	#	Х	Y	Z	occ	В	ATOM
		TYPE	1/41	571	15.264	32.134	-8.985	1.00	70.98	D
	2556	CG2	VAL	571	13.911	33.739	-5.736	1.00	70.76	D
40	2557	C	VAL	571	13.829	34.972	-5.805	1.00	70.66	D
10	2558	0	VAL	572	13.244	33.004	-4.851	1.00	69.37	D
	2559	N	ILE	572	12.356	33.588	-3.860	1.00	67.55	D
	2560	CA	ILE	572	11.428	32.507	-3.247	1.00	67.43	D
15	2561	СВ	L	572	11.025	32.883	-1.821	1.00	66.71	D
	2562	CG2	ILE	572	10.210	32.330	-4.166	1.00	65.46	D
	2563	CG1	ILE	572	9,499	31.009	-4.031	1.00	64.46	D
00	2564	CD1	ILE	572	13.246	34.234	-2.804	1.00	66.03	D
20	2565	С	ILE	572	12.946	35.316	-2.317	1.00	67.56	D
	2566	0	ILE	573	14.355	33.588	-2.471	1.00	64.63	D
	2567	N	ALA	573	15.275	34.170	-1.501	1.00	64.65	D
25	2568	CA	ALA	573	16.281	33.116	-1.028	1.00	64.20	D
	2569	СВ	ALA	573	16.009	35.348	-2.159	1.00	65.16	D
	2570	С	ALA	 	16.571	36.213	-1.466	1.00	63.91	D
00	2571	0	ALA	573	15.980	35.367	-3.499	1.00	65.57	D
30	2572	N	ALA	574	16.626	36.403	-4.334	1.00	65.65	D
	2573	CA	ALA	574	16.706	35.916	-5.791	1.00	64.41	D
	2574	СВ	ALA	574	15.873	37.732	-4.267	1.00	65.77	D
35	2575	С	ALA	574	16.442	38.816	-4.435	1.00	64.59	D
	2576	0	ALA	574	14.572	37.624	-4.037	1.00	66.30	D
	2577	N	VAL	575	13.717	38.774		1.00	67.41	D
40	2578	CA	VAL	575		38.365	1 124	1.00	67.80	D
40	2579	СВ	VAL	575	12.261	39.580	1 100	1.00	66.72	D
	2580	CG1		575	11.342	37.695			68.22	D
	2581	CG2	2 VAL	575	12.183	39.353		1.00	68.51	D
45	2582	2 C	VAL	575	13.903	40.573	2.000		68.32	D
	2583	3 0	VAL	575	14.030	38.516	1		68.40	D
	2584	4 N	LYS	576	13.937	39.085			69.53	D
	258	5 CA		576	14.159	38.05	1.07		72.11	D
50	258	6 CE		576	14.044	37.40			77.34	D
	258	7 CC	LYS	576	12.641	36.76) D
	258	8 CE		576	12.456	35.60				ı D
55	258	9 CI		576				-		2 D
	259	00 N2	Z LYS	576	13.115	34.75	7.40			

	1		TURE COOF AIN OF GRa							
5	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
	2591	С	LYS	576	15.593	39.643	-0.132	1.00	68.77	D
	2592	0	LYS	576	15.895	40.648	0.514	1.00	70.13	D
10	2593	N	TRP	577	16.489	39.007	-0.878	1.00	66.43	D
	2594	CA	TRP	577	17.842	39.536	-0.913	1.00	63.78	D
	2595	СВ	TRP	577	18.790	38.561	-1.620	1.00	61.85	D
15	2596	CG	TRP	577	20.107	39.167	-1.989	1.00	58.40	D
	2597	CD2	TRP	577	20.517	39.533	-3.302	1.00	57.61	D
	2598	CE2	TRP	577	21.836	40.028	-3.210	1.00	57.50	D
	2599	CE3	TRP	577	19.920	39.441	-4.565	1.00	56.82	D ·
20	2600	CD1	TRP	577	21.136	39.486	-1.158	1.00	57.68	D
	2601	NE1	TRP	577	22.182	40.009	-1.884	1.00	58.31	D
	2602	CZ2	TRP	577	22.542	40.486	-4.322	1.00	57.43	D
25	2603	CZ3	TRP	577	20.617	39.894	-5.668	1.00	56.94	D
	2604	CH2	TRP	577	21.928	40.389	-5.545	1.00	57.05	D
	2605	С	TRP	577	17.856	40.901	-1.609	1.00	62.95	D
	2606	0	TRP	577	18.328	41.881	-1.035	1.00	61.99	D
30	2607	N	ALA	578	17.324	40.959	-2.826	1.00	62.89	D
	2608	CA	ALA	578	17.288	42.201	-3.610	1.00	63.57	D
	2609	СВ	ALA	578	16.480	41.988	-4.895	1.00	62.98	D
35	2610	С	ALA	578	16.724	43.380	-2.821	1.00	64.15	D
	2611	0	ALA	578	17.341	44.446	-2.769	1.00	63.71	D
	2612	N	LYS	579	15.557	43.178	-2.213	1.00	64.96	D
	2613	CA	LYS	579	14.901	44.196	-1.406	1.00	65.52	D
40	2614	СВ	LYS	579	13.617	43.610	-0.812	1.00	67.19	D
	2615	CG	LYS	579	12.524	43.330	-1.856	1.00	68.64	D
	2616	CD	LYS	579	11.399	42.409	-1.353	1.00	69.03	D
45	2617	CE	LYS	579	11.014	42.666	0.106	1.00	69.80	D
	2618	NZ	LYS	579	9.561	42.402	0.366	1.00	70.70	D
	2619	С	LYS	579	15.809	44.754	-0.293	1.00	65.43	D
	2620	0	LYS	579	15.728	45.933	0.044	1.00	65.59	D
50	2621	N	ALA	580	16.687	43.930	0.264	1.00	64.59	D
	2622	CA	ALA	580	17.577	44.407	1.325	1.00	64.93	D
	2623	СВ	ALA	580	18.038	43.234	2.192	1.00	65.44	D
55	2624	С	ALA	580	18.793	45.178	0.817	1.00	64.74	D
	2625	0	ALA	580	19.532	45.780	1.604	1.00	64.88	D

	ATOMI BINDI	C STRUC	TURE COOR AIN OF GRα I	DINATE DA	ATA OBTAINE EX WITH FLU	ED FROM X ITICASONE	RAY DIFFF	RACTION F ATE AND A	ROM THE L	IGAND MENT
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	2626	N	ILE	581	19.013	45.157	-0.492	1.00	64.45	D
	2627	CA	ILE	581	20.152	45.867	-1.048	1.00	64.93	D
10	2628	СВ	ILE	581	20.382	45.492	-2.515	1.00	63.01	D
	2629	CG2	ILE	581	21.375	46.449	-3.160	1.00	62.56	D
	2630	CG1	ILE	581	20.908	44.068	-2.592	1.00	60.84	D
15	2631	CD1	ILE	581	20.782	43.502	-3.944	1.00	59.17	D
	2632	С	ILE	581	19.916	47.364	-0.949	1.00	66.48	D
	2633	0	ILE	581	18.937	47.900	-1.473	1.00	67.02	D
	2634	N	PRO	582	20.806	48.055	-0.238	1.00	67.71	D
20	2635	CD	PRO	582	21.885	47.468	0.572	1.00	68.94	D
	2636	CA	PRO	582	20.747	49.499	-0.039	1.00	69.60	D
	2637	СВ	PRO	582	22.138	49.810	0.481	1.00	69.24	D
25	2638	CG	PRO	582	22.394	48.676	1.353	1.00	69.39	D
	2639	С	PRO	582	20.452	50.200	-1.349	1.00	70.14	D
	2640	0	PRO	582	21.234	50.111	-2.296	1.00	70.73	D
	2641	N	GLY	583	19.318	50.885	-1.408	1.00	70.94	D
30	2642	CA	GLY	583	18.947	51.599	-2.611	1.00	72.37	D
	2643	С	GLY	583	18.149	50.832	-3.652	1.00	74.21	D
	2644	0	GLY	583	17.795	51.397	-4.676	1.00	74.83	Đ
35	2645	N	PHE	584	17.844	49.555	-3.422	1.00	74.85	D
	2646	CA	PHE	584	17.092	48.813	-4.429	1.00	74.38	D
	2647	СВ	PHE	584	17.361	47.309	-4.321	1.00	70.65	D
	2648	CG	PHE	584	16.647	46.498	-5.369	1.00	67.79	D
40	2649	CD1	PHE	584	17.111	46.468	-6.684	1.00	65.83	D
	2650	CD2	PHE	584	15.470	45.821	-5.056	1.00	66.67	D
	2651	CE1	PHE	584	16.404	45.783	-7.677	1.00	63.42	D
45	2652	CE2	PHE	584	14.756	45.138	-6.039	1.00	65,18	D
	2653	CZ	PHE	584	15.225	45.120	-7.353	1.00	64.10	D
	2654	С	PHE	584	15.587	49.053	-4.351	1.00	76.56	D
	2655	0	PHE	584	14.924	49.153	-5.385	1.00	76.30	D
50	2656	N	ARG	585	15.058	49.140	-3.131	1.00	79.68	D
	2657	CA	ARG	585	13.620	49.343	-2.898	1.00	81.83	D
	2658	СВ	ARG	585	13.277	49.230	-1.404	1.00	82.57	D
55	2659	CG	ARG	585	13.320	47.822	-0.844	1.00	85.17	D
	2660	CD	ARG	585	12.282	47.604	0.253	1.00	87.14	D

	1		TURE COOF		ATA OBTAIN					
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	MOTA
	2661	NE	ARG	585	10.921	47.879	-0.208	1.00	89.83	D
	2662	CZ	ARG	585	10.378	47.395	-1.327	1.00	90.53	D
10	2663	NH1	ARG	585	11.073	46.596	-2.130	1.00	89.47	D
	2664	NH2	ARG	585	9.130	47.717	-1.650	1.00	90.67	D
	2665	С	ARG	585	13.105	50.680	-3.394	1.00	82.68	D
15	2666	0	ARG	585	11.961	50.800	-3.841	1.00	82.83	D
	2667	N	ASN	586	13.957	51.689	-3.302	1.00	83.37	D
	2668	CA	ASN	586	13.582	53.021	-3.717	1.00	84.07	D
	2669	СВ	ASN	586	14.559	54.021	-3.111	1.00	85.16	D
20	2670	CG	ASN	586	14.559	53.959	-1.593	1.00	86.57	D
	2671	OD1	ASN	586	15.605	53.793	-0.958	1.00	86.08	D
	2672	ND2	ASN	586	13.368	54.076	-1.004	1.00	87.02	D
25	2673	С	ASN	586	13.482	53.180	-5.218	1.00	83.72	D
	2674	0	ASN	586	13.251	54.274	-5.715	1.00	84.47	D
	2675	N	LEU	587	13.668	52.105	-5.963	1.00	83.66	D
	2676	CA	LEU	587	13.506	52.244	-7.394	1.00	83.96	D
30	2677	СВ	LEU	587	14.377	51.266	-8.177	1.00	82.49	D
	2678	CG	LEU	587	15.893	51.449	-8.222	1.00	80.62	D
	2679	CD1	LEU	587	16.502	50.072	-8.268	1.00	80.84	D
35	2680	CD2	LEU	587	16.339	52.269	-9.424	1.00	78.79	D
	2681	С	LEU	587	12.049	51.908	-7.606	1.00	85.36	D
	2682	0	LEU	587	11.378	51.373	-6.721	1.00	85.16	D
	2683	N	HIS	588	11.561	52.223	-8.792	1.00	86.53	D
40	2684	CA	HIS	588	10.186	51.949	-9.110	1.00	87.58	D
	2685	СВ	HIS	588	9.908	52.395	-10.533	1.00	88.54	D
	2686	CG	HIS	588	8.461	52.636	-10.806	1.00	90.27	D
45	2687	CD2	HIS	588	7.739	53.783	-10.820	1.00	90.56	D
	2688	ND1	HIS	588	7.567	51.616	-11.046	1.00	90.27	D
	2689	CE1	HIS	588	6.358	52.122	-11.200	1.00	90.42	D
50	2690	NE2	ніѕ	588	6.437	53.436	-11.068	1.00	90.75	D
50	2691	С	HIS	588	9.900	50.461	-8.957	1.00	87.99	D
	2692	0	HIS	588	10.651	49.636	-9.464	1.00	88.40	D
	2693	N	LEU	589	8.821	50.129	-8.260	1.00	88.47	D
55	2694	CA	LEU	589	8.421	48.740	-8.052	1.00	88.53	D
	2695	СВ	LEU	589	7.093	48.679	-7.306	1.00	88.25	D

TABLE 2 (continued)

					TABLE 2 (continued)		AOTION ED	OM THE LIC	BAND
_	4701416	CTRUC	TUBE COOR	DINATE DA	TABLE 2 (C TA OBTAINE X WITH FLU	D FROM X-F	RAY DIFFR	ACTION FR	IF2 FRAGM	IENT
	BINDI	NG DOMA	IN OF GRa	N COMPLE	X WITH FLU		Z	OCC	В	ATOM
.	ATOM	ATOM	RESIDUE	#	×	Y	2			D
-		TYPE	LEU	589	6.842	47.395	-6.527	1.00	89.05	
-	2696	CG	LEU	589	6.931	47.743	-5.056	1.00	89.76	D
.	2697	CD1	LEU	589	5.482	46.787	-6.860	1.00	88.71	
0	2698	CD2	LEU	589	8.256	48.003	-9.382	1.00	88.65	D
	2699	C	LEU	589	7.991	46.803	-9.407	1.00	88.78	D
	2700	0	ASP	590	8.396	48.735	-10.483	1.00	88.97	D
15	2701	N	ASP	590	8.269	48.163	-11.819	1.00	89.67	D
	2702	CA		590	7.587	49.166	-12.758	1.00	91.42	D
	2703	CB	ASP	590	6.149	48.786	-13.080	1.00	92.34	D
	2704	CG	ASP	590	5.466	48.223	-12.196	1.00	93.01	D
20	2705	OD1	ASP	590	5.702	49.064	-14.217	1.00	93.07	D
	2706	OD2	ASP	590	9.641	47.794	-12.365	1.00	89.21	D
	2707	C	ASP	590	9.766	46.872	-13.174	1.00	89.72	D
25	2708	0	ASP	590	10,663	48.528	-11.941	1.00	88.41	D
	2709	N	ASP		12.033	48.252	-12.365	1.00	87.48	D
	2710	CA	ASP	591	12.925	49.470	-12.157	1.00	89.21	D
	2711	СВ	ASP	591	12.417	50.683	-12.885	1.00	90.55	D
30	2712	CG	ASP	591	11.775	50.505	-13.943	3 1.00	91.32	D
	2713	OD1		591	12.670	51.811	-12.40	7 1.00	90.79	D
	2714	OD		591	10.514	47.125		0 1.00	85.89	D
35	2715	C	ASP	591	10.010	46.213	14.00	8 1.00	85.48	D
	2716	0	ASP	591		47.22		8 1.00	84.16	D
	2717	7 N			10.450	46.23		1.00	82.32	. D
	271	B CA			14.054			4 1.00	81.57	D
40	271	9 CI	3 GLN					1.00	82.24	t D
	272	0 0	GLN					22 1.00	82.59	9 D
	272	1 C	D GLN		11.005	10.70			82.4	2 D
45	272	2 OF	E1 GLN			10.00			83.0	9 D
	272	23 NI	E2 GLI					100	81.4	3 D
	27	24 (GLI						81.4	0 D
	27	25	GL GL		12.658				0 80.5	58 D
50	27	26	N ME	<u>'</u>	11.01	- 			0 79.7	77 D
	27	27	CA ME		93 10.52				0 81.	53 D
	27	28 (CB ME	'	93 9.02	10.			0 83.	90 D
55	5 27	29 (CG ME		93 8.22				00 86.	70 D
	27	730	SD MI	ET 5	93 6.53	39 42.0				

TABLE 2 (continued)

	DIND	ING DOM	AIN OF GRα I	IN COMPLI	EX WITH FLU	JTICASONE	E PROPION	ATE AND A	TIF2 FRAC	SMENT
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	2731	CE	MET	593	5.819	44.357	-10.312	1.00	86.41	D
[2732	С	MET	593	11.189	43.379	-12.563	1.00	78.53	D
10	2733	0	MET	593	11.140	42.234	-13.012	1.00	78.60	D
[2734	N	THR	594	11.784	44.377	-13.208	1.00	76.34	D
	2735	CA	THR	594	12.429	44.086	-14.476	1.00	74.92	D
15	2736	СВ	THR	594	12.608	45.340	-15.353	1.00	75.23	D
[2737	OG1	THR	594	11.648	46.336	-14.979	1.00	75.76	D
	2738	CG2	THR	594	12.388	44.976	-16.822	1.00	74.71	D
	2739	С	THR	594	13.798	43.504	-14.174	1.00	73.12	D
20	2740	0	THR	594	14.198	42.481	-14.741	1.00	72.69	D
[2741	N	LEU	595	14.498	44.156	-13.255	1.00	70.86	D
	2742	CA	LEU	595	15.822	43.721	-12.869	1.00	68.87	D
25	2743	СВ	LEU	595	16.363	44.672	-11.783	1.00	67.46	D
	2744	CG	LEU	595	16.546	46.137	-12.248	1.00	65.81	D
	2745	CD1	LEU	595	17.104	46.982	-11.111	1.00	65.46	D
Ī	2746	CD2	LEU	595	17.484	46.212	-13.454	1.00	64.25	D
30	2747	С	LEU	595	15.837	42.233	-12.444	1.00	68.29	D
Ī	2748	0	LEU	595	16.655	41.460	-12.945	1.00	67.78	D
	2749	N	LEU	596	14.919	41.815	-11.571	1.00	67.24	D
35	2750	CA	LEU	596	14.867	40.417	-11.145	1.00	66.35	D
Ī	2751	СВ	LEU	596	13.898	40.242	-10.015	1.00	64.75	D
	2752	CG	LEU	596	14.549	40.758	-8.763	1.00	65.03	D
	2753	CD1	LEU	596	13.510	40.709	-7.689	1.00	65.87	D
40	2754	CD2	LEU	596	15.772	39.920	-8.402	1.00	63.70	D
	2755	С	LEU	596	14.450	39.468	-12.223	1.00	67.95	D
	2756	0	LEU	596	14.648	38.260	-12.121	1.00	68.48	D
45	2757	N	GLN	597	13.834	40.003	-13.256	1.00	70.46	D
	2758	CA	GLN	597	13.385	39.144	-14.322	1.00	71.83	D
ſ	2759	СВ	GLN	597	12.092	39.680	-14.893	1.00	74.64	D
[2760	CG	GLN	597	10.889	39.131	-14.174	1.00	77.64	D
50	2761	CD	GLN	597	9.690	40.015	-14.335	1.00	80.72	D
	2762	OE1	GLN	597	9.518	40.672	-15.371	1.00	81.13	D
ľ	2763	NE2	GLN	597	8.839	40.040	-13.312	1.00	82.34	D
55	2764	С	GLN	597	14.433	39.010	-15.389	1.00	71.17	D
	2765	0	GLN	597	14.538	37.981	-16.054	1.00	70.16	D

TABLE 2 (continued)

			TURE COOR AIN OF GRα I							
5	ATOM	ATOM TYPE	RESIDUE	#	×	Y	Z	occ	В	ATOM
	2766	N	TYR	598	15.222	40.060	-15.547	1.00	71.62	D
	2767	CA	TYR	598	16.282	40.034	-16.530	1.00	73.19	D
10	2768	СВ	TYR	598	16.699	41.442	-16.884	1.00	75.94	D
	2769	CG	TYR	598	15.858	42.139	-17.912	1.00	78.54	D
	2770	CD1	TYR	598	14.469	42.030	-17.920	1.00	79.49	D
15	2771	CE1	TYR	598	13.705	42.761	-18.828	1.00	80.77	D
	2772	CD2	TYR	598	16.459	42.988	-18.832	1.00	79.85	D
	2773	CE2	TYR	598	15.718	43.719	-19.729	1.00	80.37	D
	2774	CZ	TYR	598	14.350	43.607	-19.726	1.00	80.56	D
20	2775	ОН	TYR	598	13.651	44.360	-20.628	1.00	81.35	D
	2776	C	TYR	598	17.509	39.318	-15.991	1.00	72.98	D
	2777	0	TYR	598	18.318	38.818	-16.761	1.00	73.46	D
25	2778	N	SER	599	17.653	39.246	-14.671	1.00	71.89	D
	2779	CA	SER	599	18.855	38.629	-14.141	1.00	70.45	D
	2780	СВ	SER	599	19.754	39.726	-13.554	1.00	70.74	D
	2781	OG	SER	599	19.116	40.418	-12.498	1.00	71.65	D
30	2782	С	SER	599	18.773	37.475	-13.152	1.00	69.27	D
	2783	0	SER	599	19.778	37.130	-12.543	1.00	69.11	D
	2784	N	TRP	600	17.620	36.846	-12.991	1.00	68.14	D
35	2785	CA	TRP	600	17.553	35.758	-12.021	1.00	66.50	D
	2786	СВ	TRP	600	16.104	35.228	-11.880	1.00	64.24	D
	2787	CG	TRP	600	15.610	34.419	-13.029	1.00	62.65	D
40	2788	CD2	TRP	600	15.688	32.996	-13.158	1.00	62.35	D
40	2789	CE2	TRP	600	15.247	32.668	-14.461	1.00	62.55	D
	2790	CE3	TRP	600	16.088	31.963	-12.298	1.00	61.35	D
	2791	CD1	TRP	600	15.129	34.887	-14.220	1.00	62.62	D
45	2792	NE1	TRP	600	14.913	33.842	-15.086	1.00	62.81	D
	2793	CZ2	TRP	600	15.205	31.350	-14.928	1.00	62.62	D
	2794	CZ3	TRP	600	16.046	30.648	-12.763	1.00	61.50	D
50	2795	CH2	TRP	600	15.607	30.356	-14.070	1.00	62.18	D
50	2796	С	TRP	600	18.545	34.604	-12.305	1.00	66.75	D
	2797	0	TRP	600	19.058	33.988	-11.365	1.00	66.87	D
	2798	N	MET	601	18.847	34.327	-13.576	1.00	65.69	D
55	2799	CA	MET	601	19.759	33.225	-13.902	1.00	64.40	D
	2800	СВ	MET	601	19.572	32.783	-15.357	1.00	65.00	D

TABLE 2 (continued)

	1		TURE COOR							
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	2801	CG	MET	601	20.405	31.563	-15.746	1.00	64.60	D
	2802	SD	MET	601	19.781	30.024	-15.098	1.00	63.03	D
10	2803	CE	MET	601	18.606	29.722	-16.311	1.00	63.59	D
	2804	С	MET	601	21.216	33.612	-13.676	1.00	63.06	D
	2805	0	MET	601	22.030	32.811	-13.209	1.00	61.71	D
15	2806	N	SER	602	21.531	34.849	-14.033	1.00	62.11	D
	2807	CA	SER	602	22.858	35.392	-13.847	1.00	60.77	D
	2808	СВ	SER	602	22.879	36.826	-14.363	1.00	61.16	D
	2809	OG	SER	602	24.160	37.417	-14.248	1.00	65.49	D
20	2810	С	SER	602	23.113	35.321	-12.340	1.00	59.92	D
	2811 1	0	SER	602	24.177	34.898	-11.900	1.00	58.97	D
	2812	N	LEU	603	22.111	35.709	-11.548	1.00	59.96	D
25	2813	CA	LEU	603	22.215	35.657	-10.088	1.00	60.03	D
	2814	СВ	LEU	603	20.967	36.270	-9.451	1.00	59.15	D
	2815	CG	LEU	603	20.845	37.787	-9.443	1.00	58.29	D
	2816	CD1	LEU	603	19.555	38.185	-8.783	1.00	59.06	D
30	2817	CD2	LEU	603	22.015	38.374	-8.704	1.00	59.29	D
	2818	С	LEU	603	22.367	34.218	-9.556	1.00	60.99	D
	2819	0	LEU	603	23.199	33.949	-8.671	1.00	59.56	D
35	2820	N	MET	604	21.544	33.317	-10.092	1.00	61.05	D
	2821	CA	MET	604	21.535	31.914	-9.701	1.00	61.42	D
	2822	СВ	MET	604	20.301	31.212	-10.291	1.00	62.57	D
40	2823	CG	MET	604	18.977	31.722	-9.720	1.00	63.60	D
40	2824	SD	MET	604	18.923	31.632	-7.902	1.00	66.37	D
	2825	CE	MET	604	19.713	33.227	-7.348	1.00	61.36	D
	2826	С	MET	604	22.818	31.186	-10.104	1.00	61.75	D
45	2827	0	MET	604	23.401	30.451	-9.303	1.00	63.54	D
	2828	N	ALA	605	23.259	31.396	-11.343	1.00	61.11	D
	2829	CA	ALA	605	24.484	30.759	-11.826	1.00	58.27	D
50	2830	СВ	ALA	605	24.652	30.980	-13.328	1.00	56.44	D
50	2831	С	ALA	605	25.693	31.308	-11.081	1.00	57.37	D
	2832	0	ALA	605	26.508	30.533	-10.584	1.00	58.59	D
	2833	N	PHE	606	25.816	32.632	-10.982	1.00	55.71	D
55	2834	CA	PHE	606	26.969	33.185	-10.289	1.00	54.38	D
	2835	СВ	PHE	606	26.883	34.693	-10.154	1.00	53.77	D

TABLE 2 (continued)

Г	ATOM	CETRUC	TURE COORD		TABLE 2 (C A OBTAINE	FDOMY	RAY DIFFR	ACTION FR	OM THE LIC	GAND
	BINDI	NG DOMA	TURE COORD IN OF GRα IN	COMPLEX		TICASONE	PROPIONA Z	OCC OCC	B B	ATOM
5	ATOM	ATOM TYPE	RESIDUE	#	X	1				
	2836	CG	PHE	606	28.211	35.350	-9.951	1.00	52.02	D
}	2837	CD1	PHE	606	29.221	35.169	-10.889	1.00	50.21	D
10	2838	CD2	PHE	606	28.464	36.127	-8.818	1.00	51.90	D
	2839	CE1	PHE	606	30.454	35.765	-10.725	1.00	50.29	
	2840	CE2	PHE	606	29.697	36.732	-8.636	1.00	50.51	
	2841	CZ	PHE	606	30.699	36.545	-9.591	1.00	51.66	D
15	2842	С	PHE	606	27.121	32.578	-8.907	1.00	55.10	D
	2843	0	PHE	606	28.213	32.161	-8.539	1.00	55.15	D
	2844	N	ALA	607	26.039	32.527	-8.134	1.00	55.44	D
20	2845	CA	ALA	607	26.102	31.931	-6.805	1.00	54.39	D
	2846	СВ	ALA	607	24.742	31.971	-6.134	1.00	54.87	D
	2847	C	ALA	607	26.618	30.484	-6.876	1.00	54.05	D
	2848	0	ALA	607	27.568	30.149	-6.172	1.00	53.71	D
25	2849	N	LEU	608	26.015	29.628	-7.702	1.00	52.77	D
		CA	LEU	608	26.504	28.249	-7.822	1.00	54.52	D
	2850	СВ	LEU	608	25.737	27.488	-8.918	1.00	53.99	D
30	2851	CG	LEU	608	26.095	26.110	-9.530	1.00	53.37	D
	2852	CD1	LEU	608	25.505	24.894	-8.789	1.00	52.75	D
	2853	CD2	LEU	608	25.500	26.137	-10.928	1.00	51.27	D
	2854	C	LEU	608	27.997	28.321	-8.167	1.00	55.73	D
35	2855		LEU	608	28.820	27.621	-7.574	1.00	55.83	D
	2856	0	GLY	609	28.352	29.177	-9.119	1.00	56.30	D
	2857	N CA	GLY	609	29.750	29.289	-9.466	1.00	55.84	D
40	2858		GLY	609	30.519	29.339	-8.169	1.00	56.33	D
	2859		GLY	609	31.360	28.493	-7.891	1.00	58.34	D
	2860		TRP	610	30.194	30.320	-7.348	1.00	56.64	D
	2861		TRP	610	30.837	30.510		1.00	56.47	D
45	2862		TRP	610	30.164	31.686	-5.382	1.00	54.87	D
	2863			610	30.715	31.983	-4.082	1.00	54.25	D
	2864		TRP	610	31.922	32.688		1.00	54.11	D
50	2865			610	32.062	32.76		1.00	53.58	D
	2866	- 		610	32.924	33.24		1.00	54.73	D
	2867				30.168	31.67		2 1.00	53.99	D
	286			610	30.100	32.13		1 1.00	52.96	D
55	286			610	33.145	33.39			53.93	3 D
	287	0 CZ2	TRP	610	33.143	00.00				

			TURE COOR AIN OF GRα I							
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	2871	CZ3	TRP	610	34.006	33.879	-4.020	1.00	55.04	D
	2872	CH2	TRP	610	34.109	33.941	-2.614	1.00	54.37	D
10	2873	С	TRP	610	30.861	29.278	-5.126	1.00	56.15	D
	2874	0	TRP	610	31.909	28.875	-4.650	1.00	55.81	D
	2875	N	ARG	611	29.709	28.696	-4.850	1.00	57.57	D
15	2876	CA	ARG	611	29.642	27.532	-3.979	1.00	60.30	D
	2877	СВ	ARG	611	28.205	27.011	-3.916	1.00	60.79	D
	2878	CG	ARĢ	611	27.260	27.895	-3.152	1.00	61.01	D
	2879	CD	ARG	611	26.050	27.105	-2.743	1.00	62.23	D
20	2880	NE	ARG	611	25.221	26.733	-3.885	1.00	65.70	D
	2881	CZ	ARG	611	24.575	27.609	-4.658	1.00	67.49	D
	2882	NH1	ARG	611	24.672	28.915	-4.411	1.00	67.58	D
25	2883	NH2	ARG	611	23.815	27.175	-5.662	1.00	67.11	D
	2884	С	ARG	611	30.557	26.396	-4.437	1.00	62.21	D
	2885	0	ARG	611	31.111	25.658	-3.619	1.00	62.76	D
	2886	N	SER	612	30.700	26.267	-5.752	1.00	63.60	D
30	2887	CA	SER	612	31.515	25.235	-6.376	1.00	64.24	D
	2888	СВ	SER	612	31.249	25.222	-7.871	1.00	63.20	D
	2889	OG	SER	612	29.893	24.903	-8.109	1.00	64.79	D
35	2890	С	SER	612	32.992	25.440	-6.165	1.00	65.94	D
	2891	0	SER	612	33.743	24.518	-5.849	1.00	66.25	D
	2892	N	TYR	613	33.395	26.674	-6.379	1.00	67.61	D
	2893	CA	TYR	613	34.766	27.065	-6.253	1.00	70.25	D
40	2894	СВ	TYR	613	34.877	28.493	-6.765	1.00	68.40	D
	2895	CG	TYR	613	35.904	29.345	-6.083	1.00	66.72	D
	2896	CD1	TYR	613	37.257	29.017	-6.129	1.00	66.00	D
45	2897	CE1	TYR	613	38.216	29.854	-5.587	1.00	65.63	D
	2898	CD2	TYR	613	35.529	30.534	-5.465	1.00	65.87	D
	2899	CE2	TYR	613	36.478	31.385	-4.920	1.00	66.64	D
	2900	CZ	TYR	613	37.824	31.042	-4.986	1.00	66.27	D
50	2901	ОН	TYR	613	38.779	31.900	-4.487	1.00	66.46	D
	2902	С	TYR	613	35.274	26.960	-4.833	1.00	73.21	D
	2903	0	TYR	613	36.445	26.684	-4.603	1.00	74.48	D
55	2904	N	ARG	614	34.403	27.146	-3.862	1.00	76.37	D
	2905	CA	ARG	614	34.881	27.117	-2.496	1.00	80.08	D

			TURE COOR AIN OF GRa I							
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	2906	СВ	ARG	614	34.064	28.077	-1.675	1.00	81.71	D
	2907	CG	ARG	614	34.106	29.440	-2.230	1.00	84.04	D
10	2908	CD	ARG	614	34.100	30.368	-1.095	1.00	85.85	D
	2909	NE	ARG	614	35.334	31.126	-1.078	1.00	88.32	D
	2910	CZ	ARG	614	35.980	31.443	0.033	1.00	90.04	D
15	2911	NH1	ARG	614	35.501	31.042	1.207	1.00	90.01	D
	2912	NH2	ARG	614	37.086	32.173	-0.031	1.00	90.37	D
	2913	С	ARG	614	34.884	25.786	-1.798	1.00	82.06	D
	2914	0	ARG	614	35.673	25.558	-0.881	1.00	81.66	D
20	2915	N	GLN	615	33.996	24.919	-2.257	1.00	84.29	D
	2916	CA	GLN	615	33.783	23.607	-1.683	1.00	86.72	D
	2917	СВ	GLN	615	32.291	23.295	-1.776	1.00	87.00	D
25	2918	CG	GLN	615	31.757	22.321	-0.758	1.00	87.90	D
	2919	CD	GLN	615	30.383	21.805	-1.139	1.00	88.85	D
	2920	OE1	GLN	615	29.469	22.583	-1.439	1.00	89.58	D
	2921	NE2	GLN	615	30.230	20.486	-1.129	1.00	88.70	D
30	2922	С	GLN	615	34.570	22.480	-2.330	1.00	88.12	D
	2923	0	GLN	615	34.636	21.376	-1.793	1.00	88.63	D
	2924	N	SER	616	35.154	22.743	-3.493	1.00	89.98	D
35	2925	CA	SER	616	35.897	21.714	-4.201	1.00	92.24	D
	2926	СВ	SER	616	34.935	20.628	-4.707	1.00	91.52	D
	2927	OG	SER	616	33.666	21.166	-5.037	1.00	90.46	D
	2928	С	SER	616	36.699	22.297	-5.351	1.00	94.27	D
40	2929	0	SER	616	36.747	21.737	-6.454	1.00	94.33	D
	2930	N	SER	617	37.288	23.457	-5.076	1.00	96.24	D
	2931	CA	SER	617	38.160	24.176	-5.995	1.00	98.57	D
45	2932	СВ	SER	617	39.554	23.553	-5.872	1.00	99.03	D
	2933	OG	SER	617	39.571	22.606	-4.807	1.00	99.55	Ð
	2934	С	SER	617	37.755	24.286	-7.482	1.00	99.70	D
50	2935	0	SER	617	38.627	24.410	-8.349	1.00	100.43	D
50	2936	N	ALA	618	36.451	24.269	-7.761	1.00	99.99	D
	2937	CA	ALA	618	35.910	24.355	-9.129	1.00	100.55	D
	2938	СВ	ALA	618	36.607	25.472	-9.927	1.00	100.28	D
55	2939	С	ALA	618	36.023	23.019	-9.877	1.00	101.11	D
	2940	0	ALA	618	36.252	22.988	-11.095	1.00	102.13	D

TABLE 2 (continued)

			TURE COOF							
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	2941	N	ASN	619	35.846	21.925	-9.140	1.00	100.05	D
	2942	CA	ASN	619	35.920	20.572	-9.686	1.00	98.66	D
10	2943	СВ	ASN	619	36.717	19.698	-8.729	1.00	98.89	D
	2944	CG	ASN	619	38.173	20.061	-8.710	1.00	99.76	D
	2945	OD1	ASN	619	38.989	19.409	-9.362	1.00	100.38	D
15	2946	ND2	ASN	619	38.513	21.118	-7.984	1.00	100.19	D
	2947	С	ASN	619	34.537	19.956	-9.898	1.00	97.79	D
	2948	0	ASN	619	34.263	19.341	-10.933	1.00	97.87	D
	2949	N	LEU	620	33.689	20.138	-8.889	1.00	95.84	D
20	2950	CA	LEU	620	32.311	19.639	-8.847	1.00	93.00	D
	2951	СВ	LEU	620	32.115	18.877	-7.520	1.00	92.86	D
	2952	CG	LEU	620	32.410	17.366	-7.399	1.00	93.21	D
25	2953	CD1	LEU	620	33.616	16.984	-8.224	1.00	93.46	D
	2954	CD2	LEU	620	32.620	16.984	-5.936	1.00	93.04	D
	2955	С	LEU	620	31.305	20.815	-8.945	1.00	90.83	D
	2956	0	LEU	620	31.656	21.951	-8.634	1.00	90.07	D
30	2957	N	LEU	621	30.080	20.559	-9.417	1.00	88.70	D
	2958	CA	LEU	621	29.042	21.602	-9.478	1.00	86.58	D
	2959	СВ	LEU	621	28.116	21.448	-10.702	1.00	85.41	D
35	2960	CG	LEU	621	28.548	22.141	-12.005	1.00	84.56	D
	2961	CD1	LEU	621	27.426	22.091	-13.034	1.00	83.62	D
	2962	CD2	LEU	621	28.920	23.591	-11.705	1.00	83.64	D
	2963	С	LEU	621	28.257	21.351	-8.201	1.00	85.65	D
40	2964	0	LEU	621	27.712	20.267	-8.015	1.00	84.66	D
	2965	N	CYS	622	28.195	22.352	-7.329	1.00	84.99	D
	2966	CA	CYS	622	27.547	22.173	-6.033	1.00	84.82	D
45	2967	СВ	CYS	622	28.555	22.513	-4.943	1.00	84.44	D
	2968	SG	CYS	622	30.165	21.733	-5.213	1.00	84.00	D
	2969	С	CYS	622	26.256	22.923	-5.775	1.00	85.04	D
	2970	0	CYS	622	26.237	23.915	-5.046	1.00	85.22	D
50	2971	N	PHE	623	25.166	22.418	-6.321	1.00	85.24	D
Ì	2972	CA	PHE	623	23.879	23.058	-6.161	1.00	85.95	D
	2973	СВ	PHÉ	623	22.842	22.244	-6.917	1.00	84.99	D
55	2974	CG	PHE	623	23.133	22.232	-8.381	1.00	84.67	D
	2975	CD1	PHE	623	24.170	21.456	-8.896	1.00	84.97	D

TABLE 2 (continued)

	ATOMI	C STRUC	TURE COORD	DINATE DA	TA OBTAINE X WITH FLU	D FROM X- TICASONE	RAY DIFFRA	TE AND A	TIF2 FRAGN	
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
ŀ	2976	CD2	PHE	623	22.378	22.995	-9.256	1.00	84.22	D
}	2977	CE1	PHE	623	24.531	21.545	-10.242	1.00	84.00	
10	2978	CE2	PHE	623	22.733	23.093	-10.600	1.00	83.93	D
ŀ	2979	CZ	PHE	623	23.779	22.324	-11.103	1.00	84.03	D
	2980	С	PHE	623	23.451	23.362	-4.722	1.00	87.69	D
	2981	0	PHE	623	23.098	24.506	-4.424	1.00	87.48	D
15	2982	N	ALA	624	23.492	22.364	-3.844	1.00	89.72	D
	2983	CA	ALA	624	23.135	22.522	-2.422	1.00	91.56	D
	2984	СВ	ALA	624	21.650	22.219	-2.214	1.00	91.67	D
20	2985	C	ALA	624	23.989	21.484	-1.693	1.00	92.97	D
	2986	0	ALA	624	23.729	20.308	-1.854	1.00	93.10	D
	2987	N	PRO	625	25.007	21.894	-0.893	1.00	94.78	D
	2988	CD	PRO	625	25.468	23.245	-0.512	1.00	95.11	D
25	2989	CA	PRO	625	25.824	20.873	-0.211	1.00	95.23	D
	2990	СВ	PRO	625	26.256	21.600	1.061	1.00	95.14	D
	2991	CG	PRO	625	26.614	22.958	0.500	1.00	94.67	D
30	2992	C	PRO	625	25.285	19.441	0.026	1.00	94.97	
	2993	0	PRO	625	26.069	18.542	0.330	1.00	95.36	D
	2994	N	ASP	626	23.970	19.242	-0.116	1.00	94.20	D
05	2995	CA	ASP	626	23.327	17.927	-0.008	1.00	93.55	D
35	2996	СВ	ASP	626	21.992	18.026	0.797	1.00	95.17	D
	2997	CG	ASP	626	20.697	17.895	-0.073	1.00	96.51	D
	2998	OD1	ASP	626	20.722	18.077	-1.311	1.00	96.93	D
40	2999	OD2	ASP	626	19.616	17.628	0.506	1.00	97.12	D
	3000	С	ASP	626	23.083	17.412	-1.444	1.00	92.62	D
	3001	0	ASP	626	22.289	16.493	-1.655	1.00	92.92	D
45	3002	N	LEU	627	23.749	18.013	-2.436	1.00	91.17	D
7.5	3003	CA	LEU	627	23.584	17.593	-3.840	1.00	89.74	D
	3004	СВ	LEU	627	22.161	17.873	-4.367	1.00	88.17	D
	3005	CG	LEU	627	21.783	17.274	-5.744	1.00	87.34	D
50	3006		LEU	627	20.342	17.608	-6.076	1.00	87.00	D
	3007		LEU	627	22.674	17.807	-6.855	1.00	87.14	D
	3008		LEU	627	24.587	18.216	-4.805	1.00	89.11	D
55	3009		LEU	627	24.358	19.297	-5.368	1.00	88.73	D
	3010		ILE	628	25.674	17.476	-5.005	1.00	88.58	D

			TURE COOR							
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	3011	CA	ILE	628	26.777	17.834	-5.882	1.00	87.30	D
	3012	СВ	ILE	628	28.120	17.568	-5.204	1.00	86.84	D
10	3013	CG2	ILE	628	29.256	17.957	-6.120	1.00	86.63	D
	3014	CG1	ILE	628	28.175	18.310	-3.873	1.00	86.64	D
	3015	CD1	ILE	628	29.556	18.369	-3.261	1.00	86.21	D
15	3016	С	ILE	628	26.743	16.966	-7.128	1.00	86.45	D
	3017	0	ILE	628	26.406	15.783	-7.074	1.00	85.46	D
	3018	Ν	ILE	629	27.087	17.543	-8.264	1.00	86.29	D
	3019	CA	ILE	629	27.103	16.735	-9.443	1.00	86.10	D
20	3020	СВ	ILE	629	26.472	17.449	-10.621	1.00	84.49	D
	3021	CG2	ILE	629	27.090	16.998	-11.939	1.00	82.56	D
	3022	CG1	ILE	629	24.978	17.158	-10.572	1.00	83.17	D
25	3023	CD1	ILE	629	24.175	18.036	-11.424	1.00	84.20	D
	3024	С	ILE	629	28.527	16.352	-9.684	1.00	87.80	D
	3025	0	ILE	629	29.310	17.095	-10.275	1.00	87.90	D
	3026	N	ASN	630	28.840	15.190	-9.129	1.00	90.07	D
30	3027	CA	ASN	630	30.127	14.525	-9.210	1.00	91.27	D
	3028	СВ	ASN	630	30.121	13.359	-8.248	1.00	90.47	D
	3029	CG	ASN	630	28.829	12.602	-8.339	1.00	90.42	D
35	3030	OD1	ASN	630	28.088	12.776	-9.314	1.00	90.62	D
	3031	ND2	ASN	630	28.536	11.777	-7.348	1.00	89.63	D
	3032	С	ASN	630	30.222	13.976	-10.627	1.00	92.33	D
40	3033	0	ASN	630	29.381	14.260	-11.495	1.00	91.85	D
40	3034	N	GLU	631	31.228	13.141	-10.814	1.00	94.20	D
	3035	CA	GLU	631	31.525	12.554	-12.090	1.00	95.53	D
	3036	СВ	GLU	631	32.843	11.896	-12.061	1.00	97.16	D
45	3037	CG	GLU	631	33.465	11.820	-13.378	1.00	99.89	D
	3038	CD	GLU	631	34.587	10.855	-13.290	1.00	101.71	D
	3039	OE1	GLU	631	35.675	11.248	-12.812	1.00	102.39	D
50	3040	OE2	GLU	631	34.359	9.683	-13.654	1.00	101.65	D
50	3041	С	GLU	631	30.538	11.546	-12.304	1.00	95.35	D
	3042	0	GLU	631	29.768	11.682	-13.201	1.00	95.58	D
Ī	3043	N	GLN	632	30.609	10.478	-11.553	1.00	95.08	D
55	3044	CA	GLN	632	29.542	9.588	-11.723	1.00	95.45	D
	3045	СВ	GLN	632	29.154	9.224	-10.365	1.00	97.31	D

TABLE 2 (continued)

	ATOMIC BINDI	STRUC NG DOMA	TURE COORD	COMPLE	WITH FLUT		PROPION Z	OCC	- T	В	ATOM
-	MOTA	MOTA	RESIDUE	#	×	Y					
-		CG	GLN	632	28.446	8.037	-10.306	1.00		00.89	- D
-	3046	CD	GLN	632	27.588	8.184	-9.158 	1.00		03.01	
,	3047	OE1	GLN	632	28.060	8.523	-8.072	1.00		103.65	
´	3048	NE2	GLN	632	26.299	7.994	-9.362	1.00		94.61	
}	3049	C	GLN	632	28.442	10.450	-12.433	1.00		95.69	
	3050	0	GLN	632	28.445	10.522	-13.637	1.00		92.32	
5	3051 3052	N	ARG	633	27.594	11.210	-11.729	1.0		89.05	
	3052	CA	ARG	633	26.507	11.993	-12.391	+	-+	87.98	D
	3054	CB	ARG	633	25.913	12.967	-11.405			86.09	
20	3054	CG	ARG	633	25.233	12.225	-10.339			84.99	D
	3056	CD	ARG	633	24.990	13.092	-9.180	<u> </u>		83.88	D
	3057	NE	ARG	633	24.176	12.385	-8.20		00	82.20	D
	3058	CZ	ARG	633	23.971	12.830	-6.98		00	81.44	D
25	3059	NH1	ARG	633	24.530	13.968			00	82.05	D
	3060	NH2	ARG	633	23.217	12.146	10.70		.00	88.02	D
	3061	C	ARG	633	26.688	12.732			.00	87.50	D
30	3062	10	ARG	633	25.868	12.640			.00	86.51	D
	3063		MET	634	27.749	13.509			.00	85.73	D
	3064		MET	634	28.118	14.278			.00	85.01	D
35	3065		MET	634	29.471	14.854			.00	85.81	D
33	3066	CG	MET	634	29.759	16.03			1.00	85.72	D
	3067	7 SD	MET	634	29.367	17.48			1.00	85.08	D
	306	B CE	MET	634		18.52			1.00	85.55	D
40	306	9 C	MET	634		13.42			1.00	84.84	l D
	307	0 0	MET	634		12.12			1.00	86.00) D
	307	1 N	THR	635		11.28			1.00	86.49) D
45	307	'2 C	A THR	635		10.0		635	1.00	86.2	4 D
	307	73 C	B THR			10.0		217	1.00	88.3	5 D
	307	74 00						.055	1.00	86.0	2 D
	30	75 C	G2 THR					.878	1.00	86.6	0 D
50	30	76	C THR					.967	1.00	86.6	52 D
	30	77	O THE		05.005			.293	1.00	86.5	56 D
	30	78	N LEU		24 500			7.714	1.00	86.6	
5	5 30	79 (CA LEL					3.578	1.00	86.	61 C
	30	080	CB LEI	J 63	36 23.580						

TABLE 2 (continued)

ATOM ATOM TYPE RESIDUE TYPE # X Y Z OCC B ATOM TYPE 3081 CG LEU 636 23.837 10.975 -15.244 1.00 87.09 D 3082 CD1 LEU 636 23.459 11.935 -14.143 1.00 86.70 D 3084 C LEU 636 23.950 11.908 -18.952 1.00 86.70 D 3085 O LEU 636 23.710 13.106 -19.057 1.00 86.40 D 3086 N PRO 637 22.642 9.979 -19.135 1.00 88.43 D 3088 CA PRO 637 22.888 11.410 -21.067 1.00 89.09 D 3089 CB PRO 637 22.888 11.410 -20.970 1.00 89.60 D 3091 C PRO 637 22.930 <t< th=""><th></th><th></th><th></th><th>TURE COOR</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>				TURE COOR							
10 3082 CD1 LEU 636 23.459 11.935 -14.143 1.00 87.05 D 3083 CD2 LEU 636 23.067 9.690 -15.100 1.00 86.70 D 3084 C LEU 636 23.950 11.908 -16.952 1.00 87.19 D 3085 O LEU 636 23.710 13.106 -19.057 1.00 86.40 D 3086 N PRO 637 22.642 9.979 -19.135 1.00 88.07 D 3086 CA PRO 637 22.642 9.979 -19.135 1.00 88.43 D 3088 CA PRO 637 22.688 11.410 -21.067 1.00 89.09 D 3089 CB PRO 637 22.888 11.410 -21.067 1.00 89.09 D 3090 CG PRO 637 22.920 12.871 -21.475 1.00 88.66 D 3091 C PRO 637 22.920 12.871 -21.475 1.00 89.60 D 3092 O PRO 637 22.920 12.871 -21.475 1.00 89.60 D 3092 O PRO 637 22.920 12.871 -21.475 1.00 89.60 D 3093 N CVS 638 22.562 13.798 -20.631 1.00 90.92 D 3095 CB CYS 638 22.562 13.798 -20.631 1.00 90.92 D 3095 CB CYS 638 22.562 13.798 -20.631 1.00 90.92 D 3096 SG CYS 638 23.031 16.160 -20.995 1.00 90.92 D 3096 SG CYS 638 22.397 17.335 -20.639 1.00 91.46 D 3099 N MET 639 22.3819 15.758 -19.429 1.00 90.76 D 3101 CB MET 639 22.429 16.699 18.451 1.00 90.76 D 3101 CB MET 639 22.527 15.549 -15.057 1.00 90.77 D 3105 C MET 639 22.527 15.649 -15.057 1.00 90.77 D 3106 O MET 639 22.527 15.649 -15.057 1.00 90.77 D 3106 O MET 639 22.527 15.649 -15.057 1.00 90.77 D 3106 O MET 639 22.527 15.649 -15.057 1.00 90.77 D 3106 CA TYR 640 28.749 16.976 -19.970 1.00 90.29 D 3109 CB TYR 640 28.749 16.976 -19.986 1.00 80.23 D 3111 CD1 TYR 640 30.667 18.086 -18.588 1.00 90.29 D 3111 CD1 TYR 640 30.667 18.086 -18.588 1.00 80.19 D 3111 CD1 TYR 640 30.667 18.086 -18.753 1.00 80	5	ATOM	1	RESIDUE	#	Х	Y	Z	occ	В	ATOM
10 3083 CD2 LEU 636 23.067 9.690 -15.100 1.00 86.70 D 3084 C LEU 636 23.950 11.908 -18.952 1.00 87.19 D 3085 O LEU 636 23.710 13.106 -19.057 1.00 86.40 D D 3085 O LEU 636 23.710 13.106 -19.057 1.00 86.40 D D 3086 N PRO 637 22.423 11.013 -19.798 1.00 88.07 D 3087 CD PRO 637 22.642 9.979 -19.135 1.00 88.43 D 3088 CA PRO 637 22.888 11.410 -21.067 1.00 89.91 D 3098 CB PRO 637 21.454 10.914 -20.970 1.00 89.91 D 3090 CG PRO 637 21.454 10.914 -20.970 1.00 89.86 D 3091 C PRO 637 22.920 12.871 -21.475 1.00 89.60 D 3092 O PRO 637 23.318 13.197 -22.575 1.00 90.04 D D 3092 O PRO 637 23.318 13.197 -22.575 1.00 90.04 D D 3094 CA CYS 638 22.562 13.798 -20.631 1.00 99.77 D 3095 CB CYS 638 22.496 15.085 -21.249 1.00 90.59 D 3095 CB CYS 638 21.027 15.318 -21.522 1.00 90.92 D D 3096 SG CYS 638 23.031 16.160 -20.395 1.00 90.69 D 3098 O CYS 638 22.797 17.335 -20.639 1.00 91.46 D 3099 N MET 639 23.819 15.758 -19.429 1.00 90.76 D 3100 CA MET 639 24.429 16.699 -18.451 1.00 90.74 D 3100 CG MET 639 22.527 15.549 -15.057 1.00 90.77 D 3102 CG MET 639 22.527 15.549 -15.057 1.00 90.77 D 3102 CG MET 639 22.527 15.549 -15.057 1.00 90.77 D 3106 O MET 639 25.252 18.866 -18.588 1.00 91.47 D 3104 CE MET 639 25.252 18.866 -18.588 1.00 91.47 D 3104 CE MET 639 25.252 18.866 -18.588 1.00 91.47 D 3106 O MET 639 25.252 18.866 -18.588 1.00 91.47 D 3106 O MET 639 25.252 18.866 -18.588 1.00 91.47 D 3106 O MET 639 25.252 18.866 -18.588 1.00 91.47 D 3106 O MET 639 25.252 18.866 -18.58		3081	CG	LEU	636	23.837	10.975	-15.244	1.00	87.09	D
3084 C		3082	CD1	LEU	636	23.459	11.935	-14.143	1.00	87.05	D
3085	10	3083	CD2	LEU	636	23.067	9.690	-15.100	1.00	86.70	D
15 3086 N PRO 637 23.473 11.013 -19.798 1.00 88.07 D 3087 CD PRO 637 22.642 9.979 -19.135 1.00 88.43 D 3088 CA PRO 637 22.888 11.410 -21.067 1.00 89.09 D 3089 CB PRO 637 21.454 10.914 -20.970 1.00 89.17 D 3090 CG PRO 637 21.539 9.716 -20.122 1.00 88.66 D 3091 C PRO 637 22.920 12.871 -21.475 1.00 89.60 D 3092 O PRO 637 23.318 13.197 -22.575 1.00 90.04 D 20.3092 0 PRO 637 23.318 13.197 -22.575 1.00 90.04 D 20.3092 0 PRO 637 23.318 13.197 -22.575 1.00 90.04 D 20.3095 CB CYS 638 22.496 15.085 -21.429 1.00 90.59 D 20.3095 CB CYS 638 22.496 15.085 -21.429 1.00 90.92 D 20.3095 CB CYS 638 23.031 16.160 -20.395 1.00 90.69 D 20.3096 CC CYS 638 23.031 16.160 -20.395 1.00 90.69 D 20.3096 CC CYS 638 22.797 17.335 -20.639 1.00 90.76 D 20.3099 N MET 639 23.819 15.758 19.429 1.00 90.76 D 20.74 D 20.		3084	С	LEV	636	23.950	11.908	-18.952	1.00	87.19	D
3087 CD PRO 637 22.642 9.979 -19.135 1.00 88.43 D 3088 CA PRO 637 22.888 11.410 -21.067 1.00 89.09 D 3089 CB PRO 637 21.454 10.914 -20.970 1.00 89.17 D 3090 CG PRO 637 21.539 9.716 -20.122 1.00 88.86 D 3091 C PRO 637 22.920 12.871 -21.475 1.00 89.60 D 3092 O PRO 637 23.318 13.197 -22.575 1.00 90.04 D 3092 O PRO 637 23.318 13.197 -22.575 1.00 90.04 D 3094 CA CYS 638 22.562 13.798 -20.631 1.00 89.77 D 3094 CA CYS 638 22.496 15.085 -21.249 1.00 90.59 D 3095 CB CYS 638 20.576 15.454 -23.222 1.00 90.92 D 3096 SG CYS 638 20.576 15.454 -23.222 1.00 90.99 D 3096 C CYS 638 23.031 16.160 -20.395 1.00 90.69 D 3098 O CYS 638 22.797 17.335 -20.639 1.00 90.76 D 3099 N MET 639 23.819 15.758 -19.429 1.00 90.76 D 3101 CB MET 639 24.472 15.923 -17.159 1.00 90.74 D 3101 CB MET 639 23.666 16.490 -16.026 1.00 92.82 D 3103 SD MET 639 23.666 16.490 -16.026 1.00 92.82 D 3104 CE MET 639 23.666 16.490 -16.026 1.00 92.82 D 3105 C MET 639 25.227 15.549 -15.057 1.00 96.14 D D 3106 O MET 639 25.222 18.866 -18.588 1.00 91.77 D 3106 O MET 639 25.222 18.866 -18.588 1.00 91.77 D 3106 O MET 639 25.222 18.866 -18.588 1.00 91.47 D 3109 CB TYR 640 26.493 17.061 -19.070 1.00 89.21 D 3111 CD1 TYR 640 30.667 18.086 -18.588 1.00 80.23 D 3111 CD1 TYR 640 30.667 18.086 -18.582 1.00 80.23 D 3111 CD1 TYR 640 30.667 18.086 -18.582 1.00 80.23 D 3111 CD1 TYR 640 30.667 18.086 -18.582 1.00 80.23 D 3111 CD1 TYR 640 30.667 18.086 -18.582 1.00 80.23 D 3111 CD1 TYR 640 30.667 18.086 -18.582 1.00		3085	0	LEU	636	23.710	13.106	-19.057	1.00	86.40	D
3088	15	3086	N	PRO	637	23.473	11.013	-19.798	1.00	88.07	D
3089 CB		3087	CD	PRO	637	22.642	9.979	-19.135	1.00	88.43	D
20 3090 CG PRO 637 21.539 9.716 -20.122 1.00 88.86 D 3091 C PRO 637 22.920 12.871 -21.475 1.00 89.60 D 3092 O PRO 637 23.318 13.197 -22.575 1.00 90.04 D 3092 O PRO 637 23.318 13.197 -22.575 1.00 90.04 D 3093 N CYS 638 22.562 13.798 -20.631 1.00 89.77 D 3094 CA CYS 638 22.496 15.085 -21.249 1.00 90.59 D 3095 CB CYS 638 21.027 15.318 -21.522 1.00 90.92 D 3096 SG CYS 638 20.576 15.454 -23.222 1.00 91.46 D 3097 C CYS 638 23.031 16.160 -20.395 1.00 90.69 D 3098 O CYS 638 22.797 17.335 -20.639 1.00 91.18 D 3099 N MET 639 23.819 15.758 -19.429 1.00 90.76 D 3101 CB MET 639 24.472 15.923 -17.159 1.00 90.74 D 3102 CG MET 639 23.666 16.490 -16.026 1.00 92.82 D 3103 SD MET 639 23.011 16.324 -13.615 1.00 95.51 D 3104 CE MET 639 23.011 16.324 -13.615 1.00 90.77 D 3105 C MET 639 25.365 17.641 -18.712 1.00 90.77 D 3106 O MET 639 25.252 18.866 -18.588 1.00 91.47 D 3109 CB TYR 640 26.493 17.061 -19.070 1.00 90.29 D 3110 CG TYR 640 30.667 18.086 -18.782 1.00 89.21 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3113 CD2 TYR 640 31.734 18.942 -18.600 1.00 79.42 D 3113 CD2 TYR 640 30.474 18.254 -21.153 1.00 80.19 D		3088	CA	PRO	637	22.888	11.410	-21.067	1.00	89.09	D
3090 CG PRO 637 21.339 9.716 -20.122 1.00 88.86 D 3091 C PRO 637 22.920 12.871 -21.475 1.00 89.60 D 3092 O PRO 637 23.318 13.197 -22.575 1.00 90.04 D 3093 N CYS 638 22.562 13.798 -20.631 1.00 89.77 D 3094 CA CYS 638 22.496 15.085 -21.249 1.00 90.59 D 3095 CB CYS 638 21.027 15.318 -21.522 1.00 90.92 D 3096 SG CYS 638 20.576 15.454 -23.222 1.00 91.46 D 3097 C CYS 638 23.031 16.160 -20.395 1.00 90.69 D 3098 O CYS 638 22.797 17.335 -20.639 1.00 90.76 D 3099 N MET 639 23.819 15.758 -19.429 1.00 90.76 D 3101 CB MET 639 24.472 15.923 -17.159 1.00 90.74 D 3102 CG MET 639 23.666 16.490 -16.026 1.00 92.82 D 3103 SD MET 639 23.666 16.490 -16.026 1.00 92.82 D 3104 CE MET 639 23.011 16.324 -13.615 1.00 90.77 D 3105 C MET 639 25.365 17.641 -18.712 1.00 90.77 D 3106 O MET 639 25.222 18.866 -18.588 1.00 91.47 D 3107 N TYR 640 26.493 17.061 -19.070 1.00 90.29 D 3108 CA TYR 640 27.665 17.840 -19.283 1.00 89.21 D 3101 CG TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3112 CE1 TYR 640 30.474 18.254 -21.153 1.00 80.19 D		3089	СВ	PRO	637	21.454	10.914	-20.970	1.00	89.17	D
3092	20	3090	CG	PRO	637	21.539	9.716	-20.122	1.00	88.86	D
3093 N CYS 638 22.562 13.798 -20.631 1.00 89.77 D 3094 CA CYS 638 22.496 15.085 -21.249 1.00 90.59 D 3095 CB CYS 638 21.027 15.318 -21.522 1.00 90.92 D 3096 SG CYS 638 20.576 15.454 -23.222 1.00 91.46 D 3097 C CYS 638 23.031 16.160 -20.395 1.00 90.69 D 3098 O CYS 638 22.797 17.335 -20.639 1.00 91.18 D 3099 N MET 639 23.819 15.758 -19.429 1.00 90.76 D 3100 CA MET 639 24.239 16.699 -18.451 1.00 90.74 D 3101 CB MET 639 24.472 15.923 -17.159 1.00 91.74 D 3102 CG MET 639 23.666 16.490 -16.026 1.00 92.82 D 3103 SD MET 639 22.527 15.549 -15.057 1.00 96.14 D 3104 CE MET 639 23.011 16.324 -13.615 1.00 95.51 D 3105 C MET 639 25.365 17.641 -18.712 1.00 90.77 D 3106 O MET 639 25.222 18.866 -18.588 1.00 91.47 D 3108 CA TYR 640 26.493 17.061 -19.070 1.00 90.29 D 3108 CA TYR 640 26.493 17.061 -19.283 1.00 89.21 D 3109 CB TYR 640 28.749 16.976 -19.896 1.00 85.42 D 3111 CD1 TYR 640 30.015 17.737 -19.953 1.00 80.23 D 3112 CE1 TYR 640 30.474 18.254 -21.153 1.00 80.19 D 55 3114 CE2 TYR 640 30.474 18.254 -21.153 1.00 80.19 D		3091	С	PRO	637	22.920	12.871	-21.475	1.00	89.60	D
3094 CA CYS 638 22.496 15.085 -21.249 1.00 90.59 D 3095 CB CYS 638 21.027 15.318 -21.522 1.00 90.92 D 3096 SG CYS 638 20.576 15.454 -23.222 1.00 91.46 D 3097 C CYS 638 23.031 16.160 -20.395 1.00 91.46 D 3098 O CYS 638 22.797 17.335 -20.639 1.00 91.18 D 3099 N MET 639 23.819 15.758 -19.429 1.00 90.76 D 3100 CA MET 639 24.239 16.699 -18.451 1.00 90.74 D 3101 CB MET 639 23.666 16.490 -16.026 1.00 92.82 D 3102 CG MET 639 23.666 16.490 -16.026 1.00 92.82 D 3103 SD MET 639 23.011 16.324 -13.615 1.00 95.51 D 3104 CE MET 639 23.011 16.324 -13.615 1.00 95.51 D 3105 C MET 639 25.365 17.641 -18.712 1.00 90.77 D 3106 O MET 639 25.222 18.866 -18.588 1.00 91.47 D 3108 CA TYR 640 26.493 17.061 -19.070 1.00 90.29 D 3109 CB TYR 640 28.749 16.976 -19.896 1.00 89.21 D 3110 CG TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3112 CE1 TYR 640 30.474 18.254 -21.153 1.00 80.19 D		3092	0	PRO	637	23.318	13.197	-22.575	1.00	90.04	D
3095 CB CYS 638 21.027 15.318 -21.522 1.00 90.92 D 3096 SG CYS 638 20.576 15.454 -23.222 1.00 91.46 D 3097 C CYS 638 23.031 16.160 -20.395 1.00 90.69 D 3098 O CYS 638 22.797 17.335 -20.639 1.00 91.18 D 3099 N MET 639 23.819 15.758 -19.429 1.00 90.76 D 3100 CA MET 639 24.239 16.699 -18.451 1.00 90.74 D 3101 CB MET 639 23.666 16.490 -16.026 1.00 92.82 D 3102 CG MET 639 23.666 16.490 -16.026 1.00 92.82 D 3103 SD MET 639 22.527 15.549 -15.057 1.00 96.14 D 3104 CE MET 639 23.011 16.324 -13.615 1.00 95.51 D 3105 C MET 639 25.365 17.641 -18.712 1.00 90.77 D 3106 O MET 639 25.222 18.866 -18.588 1.00 91.47 D 3108 CA TYR 640 26.493 17.061 -19.070 1.00 90.29 D 3109 CB TYR 640 28.749 16.976 -19.896 1.00 89.21 D 3110 CG TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3112 CE1 TYR 640 30.474 18.254 -21.153 1.00 80.19 D	25	3093	N	CYS	638	22.562	13.798	-20.631	1.00	89.77	D
3096 SG CYS 638 20.576 15.454 -23.222 1.00 91.46 D 3097 C CYS 638 23.031 16.160 -20.395 1.00 90.69 D 3098 O CYS 638 22.797 17.335 -20.639 1.00 91.18 D 3099 N MET 639 23.819 15.758 -19.429 1.00 90.76 D 3100 CA MET 639 24.239 16.699 -18.451 1.00 90.74 D 3101 CB MET 639 23.666 16.490 -16.026 1.00 92.82 D 3103 SD MET 639 23.666 16.490 -16.026 1.00 92.82 D 3104 CE MET 639 23.011 16.324 -13.615 1.00 96.14 D 3105 C MET 639 25.365 17.641 -18.712 1.00 90.77 D 3106 O MET 639 25.222 18.866 -18.588 1.00 91.47 D 3108 CA TYR 640 26.493 17.061 -19.070 1.00 90.29 D 3109 CB TYR 640 28.749 16.976 -19.896 1.00 85.42 D 3110 CG TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3113 CD2 TYR 640 31.734 18.942 -18.800 1.00 79.42 D 3113 CD2 TYR 640 31.544 19.112 -21.184 1.00 78.89 D		3094	CA	CYS	638	22.496	15.085	-21.249	1.00	90.59	D
3097 C CYS 638 23.031 16.160 -20.395 1.00 90.69 D 3098 O CYS 638 22.797 17.335 -20.639 1.00 91.18 D 3099 N MET 639 23.819 15.758 -19.429 1.00 90.76 D 3100 CA MET 639 24.239 16.699 -18.451 1.00 90.74 D 3101 CB MET 639 24.472 15.923 -17.159 1.00 91.74 D 3102 CG MET 639 23.666 16.490 -16.026 1.00 92.82 D 3103 SD MET 639 22.527 15.549 -15.057 1.00 96.14 D 3104 CE MET 639 25.365 17.641 -18.712 1.00 90.77 D 3106 O MET 639 25.365 17.641 -18.712 1.00 90.77 D 3107 N TYR 640 26.493 17.061 -19.070 1.00 90.29 D 3108 CA TYR 640 27.665 17.840 -19.283 1.00 89.21 D 3109 CB TYR 640 28.749 16.976 -19.896 1.00 85.42 D 3110 CG TYR 640 30.015 17.737 -19.953 1.00 80.23 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3112 CE1 TYR 640 30.474 18.254 -21.153 1.00 80.19 D		3095	СВ	CYS	638	21.027	15.318	-21.522	1.00	90.92	D
3097 C CYS 638 23.031 16.160 -20.395 1.00 90.69 D 3098 O CYS 638 22.797 17.335 -20.639 1.00 91.18 D 3099 N MET 639 23.819 15.758 -19.429 1.00 90.76 D 3100 CA MET 639 24.239 16.699 -18.451 1.00 90.74 D 3101 CB MET 639 24.472 15.923 -17.159 1.00 91.74 D 3102 CG MET 639 23.666 16.490 -16.026 1.00 92.82 D 3103 SD MET 639 22.527 15.549 -15.057 1.00 96.14 D 3104 CE MET 639 23.011 16.324 -13.615 1.00 90.77 D 3105 C MET 639 25.365 17.641 -18.712 1.00 90.77 D 3106 O MET 639 25.222 18.866 -18.588 1.00 91.47 D 3108 CA TYR 640 26.493 17.061 -19.070 1.00 90.29 D 3109 CB TYR 640 27.665 17.840 -19.283 1.00 89.21 D 3110 CG TYR 640 30.015 17.737 -19.953 1.00 85.42 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3112 CE1 TYR 640 30.474 18.254 -21.153 1.00 80.19 D 3113 CD2 TYR 640 31.544 19.112 -21.184 1.00 78.89 D		3096	SG	CYS	638	20.576	15.454	-23.222	1.00	91.46	D
3099 N MET 639 23.819 15.758 -19.429 1.00 90.76 D 3100 CA MET 639 24.239 16.699 -18.451 1.00 90.74 D 3101 CB MET 639 24.472 15.923 -17.159 1.00 91.74 D 3102 CG MET 639 23.666 16.490 -16.026 1.00 92.82 D 3103 SD MET 639 23.666 16.490 -16.026 1.00 92.82 D 3104 CE MET 639 23.011 16.324 -13.615 1.00 95.51 D 3105 C MET 639 25.365 17.641 -18.712 1.00 90.77 D 3106 O MET 639 25.222 18.866 -18.588 1.00 91.47 D 3107 N TYR 640 26.493 17.061 -19.070 1.00 90.29 D 3108 CA TYR 640 27.665 17.840 -19.283 1.00 89.21 D 3109 CB TYR 640 30.015 17.737 -19.953 1.00 85.42 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3112 CE1 TYR 640 30.474 18.254 -21.153 1.00 80.19 D 55 3114 CE2 TYR 640 31.544 19.112 -21.184 1.00 78.89 D	30	3097	С	CYS	638	23.031	16.160	-20.395	1.00	90.69	D
3100 CA MET 639 24.239 16.699 -18.451 1.00 90.74 D 3101 CB MET 639 24.472 15.923 -17.159 1.00 91.74 D 3102 CG MET 639 23.666 16.490 -16.026 1.00 92.82 D 3103 SD MET 639 22.527 15.549 -15.057 1.00 96.14 D 3104 CE MET 639 23.011 16.324 -13.615 1.00 95.51 D 3105 C MET 639 25.365 17.641 -18.712 1.00 90.77 D 3106 O MET 639 25.222 18.866 -18.588 1.00 91.47 D 3107 N TYR 640 26.493 17.061 -19.070 1.00 90.29 D 3108 CA TYR 640 27.665 17.840 -19.283 1.00 89.21 D 3109 CB TYR 640 30.015 17.737 -19.953 1.00 81.76 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3112 CE1 TYR 640 30.474 18.942 -18.800 1.00 79.42 D 3113 CD2 TYR 640 30.474 18.254 -21.153 1.00 80.19 D		3098	0	CYS	638	22.797	17.335	-20.639	1.00	91.18	D
3101 CB MET 639 24.472 15.923 -17.159 1.00 91.74 D 3102 CG MET 639 23.666 16.490 -16.026 1.00 92.82 D 3103 SD MET 639 22.527 15.549 -15.057 1.00 96.14 D 3104 CE MET 639 23.011 16.324 -13.615 1.00 95.51 D 3105 C MET 639 25.365 17.641 -18.712 1.00 90.77 D 3106 O MET 639 25.222 18.866 -18.588 1.00 91.47 D 3108 CA TYR 640 26.493 17.061 -19.070 1.00 90.29 D 3108 CA TYR 640 27.665 17.840 -19.283 1.00 89.21 D 3109 CB TYR 640 28.749 16.976 -19.896 1.00 85.42 D 3110 CG TYR 640 30.015 17.737 -19.953 1.00 81.76 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3112 CE1 TYR 640 31.734 18.942 -18.800 1.00 79.42 D 3113 CD2 TYR 640 30.474 18.254 -21.153 1.00 80.19 D		3099	N	MET	639	23.819	15.758	-19.429	1.00	90.76	D
3102 CG MET 639 23.666 16.490 -16.026 1.00 92.82 D 3103 SD MET 639 22.527 15.549 -15.057 1.00 96.14 D 3104 CE MET 639 23.011 16.324 -13.615 1.00 95.51 D 3105 C MET 639 25.365 17.641 -18.712 1.00 90.77 D 3106 O MET 639 25.222 18.866 -18.588 1.00 91.47 D 45 3107 N TYR 640 26.493 17.061 -19.070 1.00 90.29 D 3108 CA TYR 640 27.665 17.840 -19.283 1.00 89.21 D 3109 CB TYR 640 28.749 16.976 -19.896 1.00 85.42 D 3110 CG TYR 640 30.015 17.737 -19.953 1.00 81.76 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3112 CE1 TYR 640 31.734 18.942 -18.800 1.00 79.42 D 3113 CD2 TYR 640 30.474 18.254 -21.153 1.00 80.19 D	35	3100	CA	MET	639	24.239	16.699	-18.451	1.00	90.74	D
3103 SD MET 639 22.527 15.549 -15.057 1.00 96.14 D 3104 CE MET 639 23.011 16.324 -13.615 1.00 95.51 D 3105 C MET 639 25.365 17.641 -18.712 1.00 90.77 D 3106 O MET 639 25.222 18.866 -18.588 1.00 91.47 D 45 3107 N TYR 640 26.493 17.061 -19.070 1.00 90.29 D 3108 CA TYR 640 27.665 17.840 -19.283 1.00 89.21 D 3109 CB TYR 640 28.749 16.976 -19.896 1.00 85.42 D 3110 CG TYR 640 30.015 17.737 -19.953 1.00 81.76 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3112 CE1 TYR 640 30.474 18.942 -18.800 1.00 79.42 D 3113 CD2 TYR 640 31.544 19.112 -21.184 1.00 78.89 D		3101	СВ	MET	639	24.472	15.923	-17.159	1.00	91.74	D
40 3104 CE MET 639 23.011 16.324 -13.615 1.00 95.51 D 3105 C MET 639 25.365 17.641 -18.712 1.00 90.77 D 3106 O MET 639 25.222 18.866 -18.588 1.00 91.47 D 45 3107 N TYR 640 26.493 17.061 -19.070 1.00 90.29 D 3108 CA TYR 640 27.665 17.840 -19.283 1.00 89.21 D 3109 CB TYR 640 28.749 16.976 -19.896 1.00 85.42 D 3110 CG TYR 640 30.015 17.737 -19.953 1.00 81.76 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3113 CD2 TYR 6		3102	CG	MET	639	23.666	16.490	-16.026	1.00	92.82	D
3104 CE MET 639 23.011 16.324 -13.615 1.00 95.51 D 3105 C MET 639 25.365 17.641 -18.712 1.00 90.77 D 3106 O MET 639 25.222 18.866 -18.588 1.00 91.47 D 45 3107 N TYR 640 26.493 17.061 -19.070 1.00 90.29 D 3108 CA TYR 640 27.665 17.840 -19.283 1.00 89.21 D 3109 CB TYR 640 28.749 16.976 -19.896 1.00 85.42 D 3110 CG TYR 640 30.015 17.737 -19.953 1.00 81.76 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3112 CE1 TYR 640 31.734 18.942 -18.800 1.00 79.42 D 3113 CD2 TYR 640 30.474 18.254 -21.153 1.00 80.19 D		3103	SD	MET	639	22.527	15.549	-15.057	1.00	96.14	D
3106 O MET 639 25.222 18.866 -18.588 1.00 91.47 D 3107 N TYR 640 26.493 17.061 -19.070 1.00 90.29 D 3108 CA TYR 640 27.665 17.840 -19.283 1.00 89.21 D 3109 CB TYR 640 28.749 16.976 -19.896 1.00 85.42 D 3110 CG TYR 640 30.015 17.737 -19.953 1.00 81.76 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3112 CE1 TYR 640 31.734 18.942 -18.800 1.00 79.42 D 3113 CD2 TYR 640 30.474 18.254 -21.153 1.00 80.19 D 55 3114 CE2 TYR 640 31.544 19.112 -21.184 1.00 78.89 D	40	3104	CE	MET	639	23.011	16.324	-13.615	1.00	95.51	D
45 3107 N TYR 640 26.493 17.061 -19.070 1.00 90.29 D 3108 CA TYR 640 27.665 17.840 -19.283 1.00 89.21 D 3109 CB TYR 640 28.749 16.976 -19.896 1.00 85.42 D 3110 CG TYR 640 30.015 17.737 -19.953 1.00 81.76 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3112 CE1 TYR 640 31.734 18.942 -18.800 1.00 79.42 D 3113 CD2 TYR 640 30.474 18.254 -21.153 1.00 80.19 D 55 3114 CE2 TYR 640 31.544 19.112 -21.184 1.00 78.89 D		3105	С	MET	639	25.365	17.641	-18.712	1.00	90.77	D
3108 CA TYR 640 27.665 17.840 -19.283 1.00 89.21 D 3109 CB TYR 640 28.749 16.976 -19.896 1.00 85.42 D 3110 CG TYR 640 30.015 17.737 -19.953 1.00 81.76 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3112 CE1 TYR 640 31.734 18.942 -18.800 1.00 79.42 D 3113 CD2 TYR 640 30.474 18.254 -21.153 1.00 80.19 D 55 3114 CE2 TYR 640 31.544 19.112 -21.184 1.00 78.89 D		3106	0	MET	639	25.222	18.866	-18.588	1.00	91.47	D
3109 CB TYR 640 28.749 16.976 -19.896 1.00 85.42 D 3110 CG TYR 640 30.015 17.737 -19.953 1.00 81.76 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3112 CE1 TYR 640 31.734 18.942 -18.800 1.00 79.42 D 3113 CD2 TYR 640 30.474 18.254 -21.153 1.00 80.19 D 55 3114 CE2 TYR 640 31.544 19.112 -21.184 1.00 78.89 D	45	3107	N	TYR	640	26.493	17.061	-19.070	1.00	90.29	D
3110 CG TYR 640 30.015 17.737 -19.953 1.00 81.76 D 3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3112 CE1 TYR 640 31.734 18.942 -18.800 1.00 79.42 D 3113 CD2 TYR 640 30.474 18.254 -21.153 1.00 80.19 D 55 3114 CE2 TYR 640 31.544 19.112 -21.184 1.00 78.89 D		3108	CA	TYR	640	27.665	17.840	-19.283	1.00	89.21	D
3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D 3112 CE1 TYR 640 31.734 18.942 -18.800 1.00 79.42 D 3113 CD2 TYR 640 30.474 18.254 -21.153 1.00 80.19 D 55 3114 CE2 TYR 640 31.544 19.112 -21.184 1.00 78.89 D		3109	СВ	TYR	640	28.749	16.976	-19.896	1.00	85.42	D
3111 CD1 TYR 640 30.667 18.086 -18.782 1.00 80.23 D		3110	CG	TYR	640	30.015	17.737	-19.953	1.00	81.76	D
3113 CD2 TYR 640 30.474 18.254 -21.153 1.00 80.19 D 55 3114 CE2 TYR 640 31.544 19.112 -21.184 1.00 78.89 D	50	3111	CD1	TYR	640	30.667	18.086	-18.782	1.00	80.23	D
55 3114 CE2 TYR 640 31.544 19.112 -21.184 1.00 78.89 D	Ì	3112	CE1	TYR	640	31.734	18.942	-18.800	1.00	79.42	D
		3113	CD2	TYR	640	30.474	18.254	-21.153	1.00	80.19	D
3115 CZ TYR 640 32.167 19.457 -20.002 1.00 78.88 D	55	3114	CE2	TYR	640	31.544	19.112	-21.184	1.00	78.89	D
		3115	CZ	TYR	640	32.167	19.457	-20.002	1.00	78.88	D

TABLE 2 (continued)

_			TURE COORD		TABLE 2 (C		BAY DIFFRA	ACTION FR	OM THE LIC	GAND
	ATOMI	C STRUC	TURE COORD AIN OF GRA IN	INATE DAT COMPLEX	WITH FLUT	ICASONE I	PROPIONA			ATOM
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	
}	3116	OH	TYR	640	33.227	20.326	-20.008	1.00	78.74	_ <u>D</u> _
	3117		TYR	640	27.324	18.970	-20.202	1.00	90.99	D
10		0	TYR	640	27.515	20.150	-19.900	1.00	91.28	D
	3118 3119		ASP	641	26.739	18.605	-21.313	1.00	92.71	D
	3119	CA	ASP	641	26.447	19.619	-22.257	1.00	93.94	D
	3120	CB	ASP	641	25.557	19.076	-23.309	1.00	97.46	<u>D</u>
15		CG	ASP	641	25.977	19.569	-24.610	1.00	100.36	D
	3122	OD1	ASP	641	26.403	20.747	-24.622	1.00	102.08	D
	3123	OD2	ASP	641	25.917	18.810	-25.589	1.00	101.89	D
20	3124	C	ASP	641	25.902	20.934	-21.775	1.00	92.79	D
	3125	-	ASP	641	26.134	21.979	-22.380	1.00	92.04	D
	3126	N	GLN	642	25.203	20.886	-20.665	1.00	92.46	D
	3127		GLN	642	24.613	22.071	-20.127	1.00	92.28	D
25	3128	CA	GLN	642	23.176	21.768	-19.850	1.00	93.82	D
	3129	CB	GLN	642	22.514	21.281	-21.065	1.00	97.01	D
	3130	CG	GLN	642	21.906	22.436	-21.770	1.00	99.33	D
30	3131	CD	GLN	642	21.991	23.566	-21.291	1.00	100.64	D
	3132	OE1	GLN	642	21.251	22.175	-22.891	1.00	100.09	D
	3133	NE2	GLN	642	25.269	22.435	-18.842	1.00	90.53	D
	3134	C	GLN	642	25.014	23.495	-18.306	1.00	90.55	D
35	3135		CYS	643	26.110	21.576	-18.307	1.00	88.94	D
	3136	_+		643	26.657	21.944	-17.011	1.00	88.17	D
	3137		CYS	643	26.827	20.735	-16.132	1.00	88.74	D
40	3138		CYS	643	25.287	20.237	-15.425	1.00	91.87	D
40	3139			643	27.954	22.519	-17.224	1.00	86.91	D
	3140		CYS	643	28.692	22.913	-16.323	1.00	86.37	D
	3141	-	CYS	644	28.215	22.657		1.00	85.71	D
45	3142		LYS	644	29.502	23.050		3 1.00	84.89	D
	314			644	29.854	22.51		3 1.00	86.51	D
	314				29.634	23.54		6 1.00	89.18	D
50	314			644	- 	23.20		9 1.00	91.39) D
50	314			644		22.49			92.90) D
	314	7 CE		644		21.98		1 1.00	93.59	D
	314			644		24.51	10.04		83.4	2 D
55	314	19 C		644		25.00			82.6	0 D
	315	50 C	LYS	644	30.099					

	1		TURE COOF AIN OF GRa		ATA OBTAIN					
5	АТОМ	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	3151	N	HIS	645	28.588	25.246	-18.936	1.00	81.98	D
	3152	CA	HIS	645	28.753	26.666	-18.883	1.00	80.20	D
10	3153	СВ	HIS	645	27.705	27.352	-19.712	1.00	80.02	D
	3154	CG	HIS	645	27.935	27.162	-21.171	1.00	79.83	D
	3155	CD2	HIS	645	28.877	27.635	-21.990	1.00	79.20	D
15	3156	ND1	HIS	645	27.103	26.362	-21.947	1.00	79.63	D
	3157	CE1	HIS	645	27.551	26.380	-23.189	1.00	79.43	D
	3158	NE2	. HIS	645	28.624	27.145	-23.247	1.00	79.34	D
	3159	С	HIS	645	28.752	27.168	-17.486	1.00	78.77	D
20	3160	0	HIS	645	29.191	28.277	-17.229	1.00	77.58	D
	3161	Ν	MET	646	28.283	26.332	-16.578	1.00	77.65	D
	3162	CA	MET	646	28.278	26.699	-15.176	1.00	76.48	D
25	3163	СВ	MET	646	27.324	25.832	-14.421	1.00	78.58	D
	3164	CG	MET	646	25.939	26.304	-14.567	1.00	80.03	D
	3165	SD	MET	646	24.817	25.168	-13.806	1.00	84.57	D
	3166	CE	MET	646	24.055	24.523	-15.228	1.00	84.51	D
30	3167	С	MET	646	29.646	26.433	-14.645	1.00	74.60	D
	3168	0	MET	646	30.246	27.246	-13.946	1.00	74.05	D
	3169	N	LEU	647	30.099	25.230	-14.946	1.00	72.75	D
35	3170	CA	LEU	647	31.411	24.790	-14.567	1.00	71.39	D
	3171	СВ	LEU	647	31.784	23.611	-15.428	1.00	71.41	D
	3172	CG	LEU	647	31.425	22.331	-14.726	1.00	71.96	D
	3173	CD1	LEU	647	31.553	21.158	-15.662	1.00	71.20	D
40	3174	CD2	LEU	647	32.354	22.209	-13.544	1.00	71.68	D
	3175	С	LEU	647	32.356	25.896	-14.896	1.00	70.66	D
	3176	0	LEU	647	33.367	26.131	-14.243	1.00	71.06	D
45	3177	N	TYR	648	32.001	26.580	-15.958	1.00	69.70	D
	3178	CA	TYR	648	32.823	27.626	-16.451	1.00	68.49	D
	3179	СВ	TYR	648	32.243	28.113	-17.748	1.00	67.48	D
50	3180	CG	TYR	648	32.924	29.359	-18.130	1.00	67.54	D
50	3181	CD1	TYR	648	34.227	29.323	-18.597	1.00	67.45	D
	3182	CE1	TYR	648	34.919	30.471	-18.849	1.00	68.42	D
	3183	CD2	TYR	648	32.311	30.589	-17.932	1.00	68.18	D
55	3184	CE2	TYR	648	32.987	31.753	-18.175	1.00	68.77	D
	3185	CZ	TYR	648	34.296	31.689	-18.646	1.00	70.60	D

TABLE 2 (continued)

	ATOMIC	STRUC	TURE COORD AIN OF GRα IN	COMPLE	WITH FLUT	ICASONE I	PROPIONAT		TF2 FRAGN	ATOM
-	ATOM	ATOM	RESIDUE	#	Х	Y	Z	occ	В	ATOM
		TYPE		649	34.963	32.853	-18.948	1.00	72.77	D
	3186	OH	TYR	648	33.058	28.813	-15.535	1.00	68.18	D
	3187	C	TYR	648	34.143	29.395	-15.524	1.00	68.25	D
0	3188	0	TYR	648	32.045	29.181	-14.776	1.00	67.31	D
	3189	N 	VAL	649	32.165	30.349	-13.925	1.00	66.61	D
	3190	CA	VAL	649	30.755	30.921	-13.625	1.00	65.52	D
5	3191	СВ	VAL	649		30.299	-14.581	1.00	63.01	D
	3192	CG1	VAL	649	29.736	30.668	-12.194	1.00	64.50	D
	3193	CG2	VAL	649	30.363	30.034	-12.642	1.00	67.05	D
	3194	С	VAL	649	32.921	30.830	-12.167	1.00	66.32	D
20	3195	0	VAL	649	33.734	28.856	-12.106	1.00	68.46	D
	3196	N	SER	650	32.631	28.336	-10.887	1.00	69.14	D
	3197	CA	SER	650	33.239	26.951	-10.620	1.00	67.35	D
25	3198	СВ	SER	650	32.687	26.091	-10.281	1.00	68.16	D
	3199	OG	SER	650	33.743	28.204	-11.135	1.00	70.15	D
	3200	С	SER	650	34.720	28.269	-10.237	1.00	71.52	D
	3201	0	SER	650	35.566	27.995	-12.402	1.00	69.47	D
30	3202	N	SER	651	35.010		+	1.00	68.31	D
	3203	CA	SER	651	36.356	27.803	11111	1.00	69.50	D
	3204	СВ	SER	651	36.304	27.110	1= 000	1.00	70.83	D
35	3205	OG	SER	651	37.318	27.608	10.005	+	66.66	D
	3206	С	SER	651	37.086	29.121	10.700		65.24	D
	3207	0	SER	651	38.290	29.205			66.35	D
	3208	N	GLU	652	36.343	30.169		1.00	65.96	D
40	3209	CA	GLU	652	36.957	31.461			66.68	+
	3210	CE	GLU	652	36.062	32.329			67.67	
	321	C	GLU	652	36.131	31.903			69.84	 -
45	321) GLU	652	37.481	32.25			70.18	
,,,	321		1 GLU	652	37.724	33.46				
	321	 -	2 GLU	652	38.309	31.35				
	321		GLU	652	37.179	32.06				
50	L	- 	GLU	652	38.165	32.75				<u></u>
	321		LEU	653	36.246	31.78				-
	32		A LEU	653	36.338	32.27			20.4	<u></u>
55			B LEU	653	35.169	31.75				
35	32		G LEU	653	33.934	32.59	97 -9.22	20 1.00	04.0	

TABLE 2 (continued)

			TURE COOF							
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	3221	CD1	LEU	653	32.747	31.964	-8.559	1.00	62.94	D
	3222	CD2	LEU	653	34.178	33.993	-8.682	1.00	62.56	D
10	3223	С	LEU	653	37.602	31.727	-9.171	1.00	67.66	D
	3224	0	LEU	653	38.385	32.399	-8.511	1.00	67.27	D
	3225	N	HIS	654	37.780	30.457	-9.428	1.00	69.12	D
15	3226	CA	HIS	654	38.923	29.801	-8.923	1.00	70.49	D
	3227	СВ	HIS	654	38.836	28.367	-9.293	1.00	74.35	D
	3228	CG	HIS	654	40.008	27.578	-8.800	1.00	78.11	D
	3229	CD2	HIS	654	41.218	27.362	-9.405	1.00	78.68	D
20	3230	ND1	HIS	654	40.019	26.988	-7.601	1.00	79.49	D
	3231	CE1	HIS	654	41.218	26.385	-7.421	1.00	80.11	D
	3232	NE2	HIS	654	41.924	26.610	-8.493	1.00	79.67	D
25	3233	C	HIS	654	40.182	30.367	-9.518	1.00	70.41	D
	3234	0	HIS	654	41.132	30.725	-8.821	1.00	71.08	D
	3235	N	ARG	655	40.202	30.409	-10.832	1.00	69.80	D
	3236	CA	ARG	655	41.370	30.896	-11.512	1.00	68.29	D
30	3237	СВ	ARG	655	41.127	30.849	-13.002	1.00	68.53	D
	3238	CG	ARG	655	42.064	31.738	-13.755	1.00	67.31	D
	3239	CD	ARG	655	41.808	31.616	-15.211	1.00	67.45	D
<i>35</i>	3240	NE	ARG	655	40.945	32.665	-15.733	1.00	68.01	D
	3241	CZ	ARG	655	41.322	33.934	-15.833	1.00	69.26	D
	3242	NH1	ARG	655	42.533	34.286	-15.436	1.00	70.31	D
40	3243	NH2	ARG	655	40.525	34.834	-16.396	1.00	70.41	D
40	3244	С	ARG	655	41.724	32.309	-11.109	1.00	67.75	D
	3245	0	ARG	655	42.889	32.670	-10.956	1.00	67.53	D
	3246	N	LEU	656	40.700	33.120	-10.945	1.00	67.39	D
45	3247	CA	LEU	656	40.917	34.501	-10.607	1.00	66.65	D
	3248	СВ	LEU	656	39.739	35.301	-11.088	1.00	66.57	D
	3249	CG	LEU	656	40.126	36.495	-11.943	1.00	67.03	D
50	3250	CD1	LEU	656	41.318	36.181	-12.810	1.00	65.91	D
50	3251	CD2	LEU	656	38.925	36.851	-12.783	1.00	66.92	D
	3252	· C	LEU	656	41.099	34.703	-9.133	1.00	66.46	D
	3253	0	LEU	656	41.387	35.812	-8.677	1.00	64.34	D
55	3254	N	GLN	657	40.896	33.630	-8.380	1.00	66.91	D
	3255	CA	GLN	657	41.064	33.735	-6.958	1.00	67.19	D

TABLE 2 (continued)

	ATOMI	C STRUCT	TURE COORD IN OF GRa IN	INATE DAT	A OBTAINEI (WITH FLU]	FROM X-F	PROPIONA	TE AND A		MENT
, l	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	
	3256	СВ	GLN	657	42.526	33.983	-6.678	1.00	69.55	
	3257	CG	GLN	657	43.331	32.749	-6.906	1.00	71.85	D
10	3258	CD	GLN	657	43.089	31.780	-5.786	1.00	74.34	D
	3259	OE1	GLN	657	42.589	30.672	-5.987	1.00	74.41	D
	3260	NE2	GLN	657	43.426	32.208	-4.573	1.00	74.95	D
	3261	C	GLN	657	40.238	34.900	-6.507	1.00	66.94	D
15	3262	0	GLN	657	40.766	35.902	-6.047	1.00	68.33	<u>D</u>
	3263	N	VAL	658	38.934	34.785	-6.657	1.00	65.98	D
	3264	CA	VAL	658	38.076	35.866	-6.254	1.00	64.44	D
20	3265	СВ	VAL	658	36.810	35.879	-7.126	1.00	63.24	D
	3266	CG1	VAL	658	35.711	36.664	-6.451	1.00	60.80	D 6
	3267	CG2	VAL	658	37.155	36.489	-8.486	1.00	61.41	D
	3268	C	VAL	658	37.750	35.737	-4.781	1.00	64.62	D
25	3269	0	VAL	658	37.513	34.645	-4.290	1.00	64.05	D
	3270	N	SER	659	37.756	36.866	-4.079	1.00	65.57	D
	3271	CA	SER	659	37.469	36.893	-2.645	1.00	66.30	D
30	3272	СВ	SER	659	38.306	37.966	-1.978	1.00	66.15	D
	3273	OG	SER	659	37.759	39.241	-2.264	1.00	67.74	D
	3274	- c	SER	659	35.999	37.189	-2.358	1.00	67.03	D D
~ =	3275	+ -	SER	659	35.339	37.878	-3.133	1.00	68.36	D
35	3276		TYR	660	35.496	36.696	-1.227	1.00	67.15	D D
	3277		TYR	660	34.092	36.910	-0.847	1.00	66.17	D
	3278		TYR	660	33.857	36.533	0.615	1.00	64.78	+
40	3279		TYR	660	32.403	36.313	0.959	1.00	63.18	D
	3280		TYR	660	31.643	35.416	0.226		62.24	
	3281		TYR	660	30.355	35.103	0.591	1.00	61.50	
45	3282			660	31.815	36.910		-i	62.26	
43	3283			660	30.503	36.593			60.49	
	3284			660	29.791	35.680			60.89	
	328		TYR	660	28.535	35.259			62.14	
50	328	6 C	TYR	660	33.652	38.352			66.01	
	328		TYR	660	32.531	38.64				
	328		GLU	661	34.522	39.27				
55		- 	GLU	661	34.122	40.64				
	329	O CE	GLU	661	35.070	41.54	3 0.04	0 1.00	09.27	

			TURE COOP AIN OF GRa		ATA OBTAIN					
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	3291	CG	GLU	661	34.532	41.760	1.448	1.00	71.42	D
	3292	CD	GLU	661	35.342	42.747	2.256	1.00	74.29	D
10	3293	OE1	GLU	661	35.698	43.822	1.714	1.00	73.64	D
	3294	OE2	GLU	661	35.610	42.449	3.444	1.00	75.81	D
	3295	C	GLU	661	33.951	41.068	-2.186	1.00	66.87	D
15	3296	0	GLU	661	32.961	41.727	-2.508	1.00	67.41	D
	3297	N	GLU	662	34.868	40.688	-3.071	1.00	64.88	D
	3298	CA	GLU	662	34.686	41.042	-4.477	1.00	63.49	D
	3299	СВ	GLU	662	35.873	40.599	-5.314	1.00	62.99	D
20	3300	CG	GLU	662	37.162	41.179	-4.843	1.00	64.63	D
	3301	CD	GLU	662	38.352	40.431	-5.382	1.00	65.77	D
	3302	OE1	GLU	662	38.304	39.176	-5.401	1.00	65.65	D
25	3303	OE2	GLU	662	39.334	41.096	-5.771	1.00	66.42	D
	3304	С	GLU	662	33.425	40.344	-4.991	1.00	62.59	D
	3305	0	GLU	662	32.602	40.943	-5.669	1.00	62.76	D
	3306	N	TYR	663	33.275	39.067	-4.666	1.00	61.55	D
30	3307	CA	TYR	663	32.116	38.296	-5.105	1.00	61.53	D
	3308	СВ	TYR	663	32.173	36.903	-4.511	1.00	60.18	D
	3309	CG	TYR	663	30.842	36.207	-4.514	1.00	58.99	D
35	3310	CD1	TYR	663	30.358	35.603	-5.679	1.00	58.48	D
	3311	CE1	TYR	663	29.173	34.869	-5.674	1.00	57.76	D
	3312	CD2	TYR	663	30.098	36.076	-3.342	1.00	58.44	D
40	3313	CE2	TYR	663	28.902	35.341	-3.324	1.00	58.34	D
40	3314	CZ	TYR	663	28.453	34.738	-4.497	1.00	57.94	D
	3315	ОН	TYR	663	27.308	33.970	-4.496	1.00	57.87	D
	3316	С	TYR	663	30.767	38.908	-4.724	1.00	62.00	D
45	3317	0	TYR	663	29.829	38.924	-5.520	1.00	62.20	D
	3318	N	LEU	664	30.665	39.354	-3.481	1.00	62.05	D
	3319	CA	LEU	664	29.445	39.953	-2.986	1.00	61.47	D
50	3320	СВ	LEU	664	29.637	40.414	-1.538	1.00	59.38	D
50	3321	CG	LEU	664	29.465	39.343	-0.468	1.00	56.38	D
	3322	CD1	LEU	664	29.558	39.964	0.898	1.00	56.57	D
	3323	CD2	LEU	664	28.120	38.685	-0.643	1.00	54.70	D
55	3324	С	LEU	664	29.041	41.139	-3.858	1.00	61.76	D
	3325	0	LEU	664	27.897	41.235	-4.315	1.00	62.66	D

	AT	OMIC STR	UCTURE CO	OORDINAT	F DATA ORT	AINED FRO	M V DAV D	IFFRACTIO	N EDOM TI	IT LICAND
5	 		1	1001	PLEX WITH	FLUTICAS	ONE PROPI	ONATE AN	D A TIF2 FF	RAGMENT
J	Aloi	TYPE	RESIDU	JE #	Х	Y	Z	occ		ATOM
	3326		CYS	665	30.001	42.03	36 -4.06	2 1.00	60.92	2 D
10	3327		CYS	665	29.814	43.22	23 -4.87	1 1.00	60.90) D
	3328		CYS	665	31.074	44.06	8 -4.86	1 1.00	61.24	D
	3329	 -	CYS	665	31.426	44.83	7 -3.28	6 1.00	65.61	
	3330		CYS	665	29.496	42.86	5 -6.30	6 1.00	60.48	
15	3331	+	CYS	665	28.707	43.53	0 -6.963	3 1.00	61.40	
	3332	+	MET	666	30.117	41.81	8 -6.803	3 1.00	60.26	
	3333		MET	666	29.875	41.42	1 -8.171	1.00	61.32	+
20	3334	СВ	MET	666	30.901	40.380	-8.603	1.00	62.78	D
	3335	CG	MET	666	32.263	40.95	-8.889	1.00	64.66	D
	3336	SD	MET	666	33.317	39.659	-9.479	1.00	66.42	D
	3337	CE	MET	666	33.925	39.166	-8.028	1.00	65.54	D
25	3338	С	MET	666	28.473	40.873	-8.410	1.00	61.55	D
	3339	0	MET	666	27.900	41.065	-9.487	1.00	61.02	D
	3340	N	LYS	667	27.924	40.178	-7.419	1.00	61.13	D
30	3341	CA	LYS	667	26.595	39.607	-7.568	1.00	60.57	D
	3342	СВ	LYS	667	26.350	38.592	-6.466	1.00	59.74	D
	3343	CG	LYS	667	25.239	37.616	+	1.00	59.22	D
	3344	CD	LYS	667	25.237	36.517	-5.690	1.00	60.32	D
35	3345	CE	LYS	667	24.654	36.991	-4.345	1.00	62.35	D
	3346	NZ	LYS	667	25.373	38.129	-3.686	1.00	63.45	D
	3347	С	LYS	667	25.547	40.710	-7.513	1.00	60.96	D
40	3348	0	LYS	667	24.472	40.594	-8.112	1.00	60.77	D
	3349	N	THR	668	25.864	41.775	-6.782	1.00	60.79	D
	3350	CA	THR	668	24.973	42.909	-6.658	1.00	60.41	D
	3351	СВ	THR	668	25.477	43.872	-5.594	1.00	61.34	D
45	3352	OG1	THR	668	25.395	43.225	-4.321	1.00	63.92	
	3353	CG2	THR	668	24.646	45.148	-5.575	1.00	61.41	D
	3354	С	THR	668	24.996	43.561	-8.023	1.00	59.41	D
50	3355	0	THR	668	23.960	43.901	-8.568	1.00	59.47	D
]	3356	N	LEU	669	26.195	43.708	-8.580	1.00	58.91	D
	3357	CA	LEU	669	26.346	44.279	-9.906	1.00	57.37	D
	3358	СВ	LEU	669	27.816	44.348	-10.293	1.00	55.15	D
55	3359	CG	LEU	669	28.451	45.738	-10.271	1.00	54.09	D
L	3360	CD1	LEU	669	27.548	46.728	-9.596	1.00	53.96	
									30.30	D

TABLE 2 (continued)

ATOM ATOM TYPE RESIDUE TYPE # X Y Z OCC B ATOM TYPE 3381 CD2 LEU 669 29.782 45.684 -9.566 1.00 54.12 D 3382 C LEU 669 25.577 43.457 -10.937 1.00 57.74 D 3383 O LEU 670 25.540 42.139 -10.809 1.00 57.67 D 3366 CA LEU 670 24.787 41.377 -11.803 1.00 58.50 D 3366 CB LEU 670 26.318 39.252 -11.968 1.00 58.50 D 3367 CG LEU 670 26.640 39.314 -11.498 1.00 57.91 D 3369 CD2 LEU 670 22.660 39.314 -11.498 1.00 59.43 D 3373 C LEU 670 22.615 41.656		_		TURE COOP AIN OF GRa							
10 3362 C LEU 669 25.577 43.457 -10.937 1.00 57.74 D 3363 O LEU 669 25.001 44.015 -11.849 1.00 59.33 D 3364 N LEU 670 25.540 42.139 -10.809 1.00 57.67 D 3365 CA LEU 670 24.787 41.377 -11.803 1.00 58.56 D 3366 CB LEU 670 24.787 39.878 -11.623 1.00 58.56 D 3367 CG LEU 670 26.318 39.252 -11.968 1.00 57.91 D 3369 CD2 LEU 670 26.640 39.314 -13.463 1.00 56.69 D 3370 C LEU 670 22.615 41.449 -12.768 1.00 59.43 D 3371 O LEU 670 22.615 41.449 -12.768 1.00 59.43 D 3372 CA LEU 671 22.786 42.095 -10.629 1.00 60.29 D 3374 CB LEU 671 21.039 42.662 -9.035 1.00 57.31 D 3375 CG LEU 671 21.003 42.662 -9.035 1.00 57.31 D 3376 CD1 LEU 671 19.589 43.177 -8.782 1.00 55.23 D 3376 CD1 LEU 671 19.589 43.177 -8.782 1.00 55.23 D 3376 CD1 LEU 671 19.409 43.482 -7.299 1.00 53.61 D 3377 CD2 LEU 671 21.003 42.662 -9.035 1.00 57.31 D 3378 C LEU 671 19.409 43.482 -7.299 1.00 53.61 D 3379 O LEU 671 21.092 43.632 -11.334 1.00 60.55 D 3379 O LEU 671 21.092 43.632 -11.334 1.00 60.55 D 3381 CA LEU 672 22.117 44.476 -11.420 1.00 60.54 D 3381 CA LEU 672 22.117 44.476 -11.420 1.00 60.55 D 3382 CB LEU 672 22.810 46.795 -11.402 1.00 58.78 D D 3385 CD2 LEU 672 22.810 46.795 -11.402 1.00 58.78 D D 3385 CD2 LEU 672 22.810 46.795 -11.402 1.00 58.79 D D 3385 CD2 LEU 672 22.810 46.595 -13.972 1.00 63.27 D 3383 CA LEU 672 22.810 46.595 -13.972 1.00 64.36 D D 3389 CA SER 673 22.826 44.295 -13.972 1.00 64.36 D 3399 CA SER 673 22.826 44.295 -13.972 1.00 64.36 D 3399 CB SER 673 22.840 44.155	5	ATOM		RESIDUE	#	X	Y	Z	occ	В	ATOM
10 3383 O LEU 669 25.001 44.015 -11.849 1.00 59.33 D 3364 N LEU 670 25.540 42.139 -10.809 1.00 57.67 D 3365 CA LEU 670 24.787 41.377 -11.803 1.00 58.56 D 3367 CG LEU 670 24.787 39.878 -11.623 1.00 58.50 D 3367 CG LEU 670 24.977 39.878 -11.623 1.00 58.50 D 3368 CD1 LEU 670 26.318 39.252 -11.968 1.00 56.50 D 3368 CD1 LEU 670 26.318 39.252 -11.968 1.00 57.91 D D 3368 CD2 LEU 670 26.640 39.314 -13.463 1.00 56.50 D 3370 C LEU 670 22.615 41.449 -12.768 1.00 59.43 D 3371 O LEU 670 22.615 41.449 -12.768 1.00 59.43 D 3372 N LEU 671 22.786 42.095 -10.629 1.00 60.29 D 3374 CB LEU 671 21.359 42.389 -10.500 1.00 59.73 D 3375 CG LEU 671 21.003 42.662 -9.035 1.00 57.31 D 3375 CG LEU 671 19.589 43.177 -8.782 1.00 55.23 D 3376 CD1 LEU 671 19.589 43.177 -8.782 1.00 55.23 D 3377 CD2 LEU 671 19.589 43.632 -11.334 1.00 60.95 D 3378 C LEU 671 21.092 43.632 -11.334 1.00 60.95 D 3378 C LEU 671 21.092 43.632 -11.334 1.00 60.95 D 3379 O LEU 671 20.006 43.804 -11.891 1.00 61.87 D 3381 CA LEU 672 22.117 44.476 -11.420 1.00 60.54 D 3381 CA LEU 672 22.117 44.476 -11.420 1.00 60.54 D 3381 CA LEU 672 22.117 44.476 -11.420 1.00 58.78 D 3381 CA LEU 672 22.117 44.476 -11.420 1.00 58.78 D 3381 CA LEU 672 22.117 44.476 -11.420 1.00 58.78 D 3381 CA LEU 672 22.117 44.476 -11.420 1.00 58.78 D 3381 CA LEU 672 22.110 46.795 -11.402 1.00 58.79 D D 3381 CA LEU 672 22.110 46.795 -11.402 1.00 58.79 D 3381 CA LEU 672 22.110 46.795 -11.402 1.00 58.70 D 3381 CA LEU 672 22.110 46.795 -11.402		3361	CD2	LEU	669	29.782	45.684	-9.566	1.00	54.12	D
3364 N LEU 670 25.540 42.139 -10.809 1.00 57.67 D 33.36 CA LEU 670 24.787 41.377 -11.803 1.00 58.56 D 3366 CB LEU 670 24.787 41.377 -11.803 1.00 58.56 D 3367 CG LEU 670 26.318 39.252 -11.968 1.00 58.50 D 3368 CD1 LEU 670 26.21 37.821 -11.498 1.00 56.50 D 3368 CD1 LEU 670 26.640 39.314 -13.463 1.00 56.69 D 3370 C LEU 670 23.296 41.656 11.773 1.00 59.22 D 3371 O LEU 670 22.615 41.449 1.2.768 1.00 59.43 D 3371 O LEU 671 22.786 42.095 1.00 59.73 D 3373 CA LEU 671 21.359 42.389 1.05.69 1.00 57.31 D 3374 CB LEU 671 21.359 42.389 1.05.69 1.00 57.31 D 3375 CG LEU 671 19.589 43.177 -8.782 1.00 55.23 D 3376 CD1 LEU 671 19.589 43.177 -8.782 1.00 55.23 D 3376 CD1 LEU 671 19.589 43.177 -8.782 1.00 55.23 D 3377 CD2 LEU 671 19.409 43.482 -7.299 1.00 52.46 D 3377 CD2 LEU 671 21.092 43.632 11.334 1.00 60.95 D 3379 O LEU 671 20.006 43.804 11.891 1.00 60.95 D 3379 O LEU 672 22.117 44.476 11.420 1.00 60.54 D 3381 CA LEU 672 22.180 46.795 11.402 1.00 60.55 D 3380 N LEU 672 22.180 46.795 11.402 1.00 60.55 D 3381 CA LEU 672 22.180 46.795 11.402 1.00 60.55 D 3381 CA LEU 672 22.180 46.795 11.402 1.00 60.55 D 3381 CA LEU 672 22.810 46.795 11.402 1.00 60.55 D 3381 CD LEU 672 22.117 44.476 11.420 1.00 60.55 D 3381 CD LEU 672 22.117 44.476 11.420 1.00 60.55 D 3381 CD LEU 672 22.810 46.795 11.402 1.00 58.78 D 3381 CD LEU 672 22.810 46.795 11.402 1.00 58.78 D 3381 CD LEU 672 22.810 46.795 11.402 1.00 60.55 D D 3385 CD2 LEU 672 22.810 46.795 11.402 1.00 58.78 D 3381 CD LEU 672 22.810 46.595 11.402 1.00 58.78 D 3381 CD LEU 672 22.810 46.595 11.402 1.00 60.55 D D 3385 CD2 LEU 672 22.810 46.595 11.402 1.00 60.55 D D 3385 CD2 LEU 672 22.810 46.595 11.402 1.00 60.50 D D 3385 CD2 LEU 672 22.810 46.595 11.402 1.00 60.50 D D 3385 CD2 LEU 672 22.810 46.595 11.402 1.00 60.50 D D 3385 CD2 LEU 672 22.810 46.595 11.402 1.00 60.50 D D 3385 CD2 LEU 672 22.810 46.595 11.402 1.00 60.50 D D 3385 CD2 LEU 672 22.810 46.595 1.15.217 1.00 64.36 D D 3380 CD SER 673 22.826 44.295 1.15.366 1.00 60.50 D D D 3380 CD SER 673 22.826 44.295 1.15.366 1.00 60.50 D D 3399 CD		3362	С	LEU	669	25.577	43.457	-10.937	1.00	57.74	D
3365	10	3363	0	LEU	669	25.001	44.015	-11.849	1.00	59.33	D
15		3364	Ν	LEU	670	25.540	42.139	-10.809	1.00	57.67	D
3367 CG LEU 670 26.318 39.252 -11.968 1.00 58.50 D 3368 CD1 LEU 670 26.221 37.821 -11.498 1.00 57.91 D 3369 CD2 LEU 670 26.640 39.314 -13.463 1.00 56.69 D 3370 C LEU 670 23.296 41.656 -11.773 1.00 59.22 D 3371 O LEU 670 22.615 41.449 -12.768 1.00 59.43 D 3372 N LEU 671 22.786 42.095 -10.629 1.00 60.29 D 3374 CB LEU 671 21.359 42.369 -10.500 1.00 59.73 D 3375 CG LEU 671 21.359 42.369 -10.500 1.00 59.73 D 3376 CG LEU 671 19.589 43.177 -8.782 1.00 55.23 D 3377 CD2 LEU 671 19.409 43.482 -7.299 1.00 55.246 D 3378 C LEU 671 21.092 43.632 -11.334 1.00 60.95 D 3379 O LEU 671 20.006 43.804 -11.891 1.00 60.54 D 3381 CA LEU 672 22.117 44.476 -11.420 1.00 60.54 D 3382 CB LEU 672 22.810 46.795 -11.402 1.00 58.78 D 3383 CG LEU 672 22.810 46.795 -11.402 1.00 58.78 D 3384 CD1 LEU 672 22.810 46.795 -11.402 1.00 58.79 D 3385 CD2 LEU 672 22.117 47.064 -9.225 1.00 57.12 D 3386 C LEU 672 22.117 47.094 -9.255 1.00 57.12 D 3387 O LEU 672 22.113 46.856 -9.938 1.00 58.80 D 3388 N SER 673 22.826 44.295 -13.972 1.00 64.36 D 3389 CA SER 673 22.826 44.295 -13.972 1.00 64.36 D 3390 CB SER 673 22.840 44.150 -15.570 1.00 67.84 D 3393 O SER 673 23.468 43.919 -17.608 1.00 73.68 D		3365	CA	LEU	670	24.787	41.377	-11.803	1.00	58.56	D
3368 CD1 LEU 670 26.221 37.821 -11.498 1.00 57.91 D 3369 CD2 LEU 670 26.640 39.314 -13.463 1.00 56.69 D 3370 C LEU 670 23.296 41.656 -11.773 1.00 59.22 D 3371 O LEU 670 22.615 41.449 -12.768 1.00 59.43 D 3372 N LEU 671 22.786 42.095 -10.629 1.00 60.29 D 3374 CB LEU 671 21.359 42.389 -10.500 1.00 59.73 D 3375 CG LEU 671 21.003 42.662 -9.035 1.00 57.31 D 3375 CG LEU 671 19.589 43.177 -8.782 1.00 55.23 D 3376 CD1 LEU 671 19.409 43.482 -7.299 1.00 53.61 D 3377 CD2 LEU 671 21.092 43.632 -11.334 1.00 60.95 D 3378 C LEU 671 20.006 43.804 -11.891 1.00 60.95 D 3379 O LEU 672 22.117 44.476 -11.420 1.00 60.54 D D 3381 CA LEU 672 22.810 46.795 -11.402 1.00 58.78 D 3383 CG LEU 672 22.810 46.795 -11.402 1.00 58.78 D 3383 CG LEU 672 22.413 46.856 -9.938 1.00 58.78 D 3384 CD1 LEU 672 23.175 47.964 -9.225 1.00 58.78 D 3386 C LEU 672 22.117 44.650 -9.938 1.00 58.78 D 3386 C LEU 672 23.175 47.964 -9.225 1.00 58.78 D 3386 C LEU 672 23.175 47.964 -9.225 1.00 57.12 D 3386 C LEU 672 23.130 46.520 -14.136 1.00 60.57 D 3387 O LEU 672 23.130 46.520 -14.136 1.00 63.27 D 3388 N SER 673 22.826 44.295 -13.515 1.00 63.27 D 3389 CA SER 673 23.527 43.991 -15.217 1.00 64.36 D 3391 OG SER 673 23.448 41.590 -15.336 1.00 63.96 D 3393 O SER 673 23.468 43.919 -17.608 1.00 71.75 D 3393 O SER 673 23.468 43.919 -17.608 1.00 71.75 D 3393 O SER 673 23.468 43.919 -17.608 1.00 71.75 D	15	3366	СВ	LEU	670	24.977	39.878	-11.623	1.00	58.10	D
3369 CD2 LEU 670 26.640 39.314 -13.463 1.00 56.69 D		3367	CG	LEU	670	26.318	39.252	-11.968	1.00	58.50	D
20 3370 C LEU 670 23.296 41.656 -11.773 1.00 59.22 D 3371 O LEU 670 22.615 41.449 -12.768 1.00 59.43 D 3372 N LEU 671 22.786 42.095 -10.629 1.00 60.29 D 3373 CA LEU 671 21.359 42.389 -10.500 1.00 59.73 D 3374 CB LEU 671 19.589 43.177 -8.782 1.00 55.23 D 3375 CG LEU 671 19.589 43.177 -8.782 1.00 55.23 D 3376 CD1 LEU 671 19.578 42.139 -9.272 1.00 53.61 D 3377 CD2 LEU 671 19.409 43.482 -7.299 1.00 52.46 D 3378 C LEU 671 21.092 43.632 -11.334 1.00 60.95 D 3379 O LEU 671 20.006 43.804 -11.891 1.00 61.87 D 3381 CA LEU 672 22.117 44.476 -11.420 1.00 60.54 D 3382 CB LEU 672 22.810 46.795 -11.402 1.00 58.78 D 3383 CG LEU 672 22.413 46.856 -9.938 1.00 58.78 D 3384 CD1 LEU 672 23.175 47.964 -9.225 1.00 55.10 D 3386 C LEU 672 23.175 47.964 -9.225 1.00 58.80 D 3386 C LEU 672 23.130 46.520 -14.136 1.00 63.27 D 3388 N SER 673 22.826 44.295 -13.972 1.00 64.36 D 3390 CB SER 673 23.527 43.991 -15.217 1.00 63.96 D 3392 C SER 673 23.448 43.919 -17.608 1.00 70.84 D 3393 O SER 673 23.488 43.919 -17.608 1.00 73.68 D		3368	CD1	LEU	670	26.221	37.821	-11.498	1.00	57.91	D
3370 C LEU 670 23.296 41.666 -11.7/3 1.00 59.22 D 3371 O LEU 670 22.615 41.449 -12.768 1.00 59.43 D 3372 N LEU 671 22.786 42.095 -10.629 1.00 60.29 D 3373 CA LEU 671 21.359 42.389 -10.500 1.00 59.73 D 3374 CB LEU 671 21.003 42.662 -9.035 1.00 57.31 D 3375 CG LEU 671 19.589 43.177 -8.782 1.00 55.23 D 3376 CD1 LEU 671 19.589 43.177 -8.782 1.00 55.23 D 3377 CD2 LEU 671 19.409 43.482 -7.299 1.00 53.61 D 3378 C LEU 671 21.092 43.632 -11.334 1.00 60.95 D 3379 O LEU 671 20.006 43.804 -11.891 1.00 60.95 D 3380 N LEU 672 22.117 44.476 -11.420 1.00 60.54 D 3381 CA LEU 672 22.117 44.476 -11.420 1.00 60.50 D 3382 CB LEU 672 22.810 46.795 -11.402 1.00 55.78 D 3383 CG LEU 672 22.413 46.856 -9.938 1.00 58.89 D 3384 CD1 LEU 672 23.175 47.964 -9.225 1.00 57.12 D 3385 CD2 LEU 672 20.914 47.072 -9.865 1.00 58.80 D 3386 C LEU 672 23.130 46.520 -14.136 1.00 63.27 D 3388 N SER 673 23.144 47.072 -9.865 1.00 63.27 D 3390 CB SER 673 23.144 41.590 -15.336 1.00 63.96 D 3391 OG SER 673 23.144 41.590 -15.336 1.00 70.84 D 3393 O SER 673 23.488 43.919 -17.608 1.00 70.84 D		3369	CD2	LEU	670	26.640	39.314	-13.463	1.00	56.69	D
3372 N LEU 671 22.786 42.095 -10.629 1.00 60.29 D 3373 CA LEU 671 21.359 42.389 -10.500 1.00 59.73 D 3374 CB LEU 671 21.003 42.662 -9.035 1.00 57.31 D 3375 CG LEU 671 19.589 43.177 -8.782 1.00 55.23 D 3376 CD1 LEU 671 19.589 43.177 -8.782 1.00 53.61 D 3377 CD2 LEU 671 19.409 43.482 -7.299 1.00 52.46 D 3378 C LEU 671 21.092 43.632 -11.334 1.00 60.95 D 3379 O LEU 671 20.006 43.804 -11.891 1.00 61.87 D 3381 CA LEU 672 22.117 44.476 -11.420 1.00 60.54 D 3382 CB LEU 672 22.810 46.795 -11.402 1.00 58.78 D 3383 CG LEU 672 22.413 46.856 -9.938 1.00 58.99 D 3384 CD1 LEU 672 22.413 46.856 -9.938 1.00 58.99 D 3385 CD2 LEU 672 23.175 47.964 -9.225 1.00 57.12 D 3386 C LEU 672 22.726 45.538 -13.515 1.00 62.31 D 3388 N SER 673 23.130 46.520 -14.136 1.00 63.27 D 3389 CA SER 673 23.130 46.520 -14.136 1.00 63.27 D 3390 CB SER 673 23.144 41.590 -15.336 1.00 63.96 D 3392 C SER 673 23.468 43.919 -17.608 1.00 70.84 D 3393 O SER 673 23.468 43.919 -17.608 1.00 73.68 D	20	3370	С	LEU	670	23.296	41.656	-11.773	1.00	59.22	D
25 3373 CA LEU 671 21.359 42.389 -10.500 1.00 59.73 D 3374 CB LEU 671 21.003 42.662 -9.035 1.00 57.31 D 3375 CG LEU 671 19.589 43.177 -8.782 1.00 55.23 D 3376 CD1 LEU 671 18.578 42.139 -9.272 1.00 53.61 D 3377 CD2 LEU 671 19.409 43.482 -7.299 1.00 52.46 D 3378 C LEU 671 21.092 43.632 -11.334 1.00 60.95 D 3379 O LEU 671 20.006 43.804 -11.891 1.00 60.54 D 3381 CA LEU 672 22.117 44.476 -11.420 1.00 60.54 D 3382 CB LEU 672 22.810 46.795 -11.402 1.00 58.78 D 3383 CG LEU 672 22.413 46.856 -9.938 1.00 58.79 D 3385 CD2 LEU 672 23.175 47.964 -9.225 1.00 57.12 D 3385 CD2 LEU 672 22.726 45.538 -13.515 1.00 62.31 D 45.538 N SER 673 22.826 44.295 -13.972 1.00 64.36 D 3389 CA SER 673 22.826 44.295 -13.972 1.00 64.36 D 3390 CB SER 673 23.144 41.590 -15.336 1.00 63.96 D 3392 C SER 673 22.840 44.150 -16.570 1.00 70.84 D 3393 O SER 673 23.468 43.919 -17.608 1.00 71.75 D 55 3394 N SER 674 21.562 44.495 -16.587 1.00 73.68 D		3371	0	LEU	670	22.615	41.449	-12.768	1.00	59.43	D
3374 CB LEU 671 21.003 42.662 -9.035 1.00 57.31 D 3375 CG LEU 671 19.589 43.177 -8.782 1.00 55.23 D 3376 CD1 LEU 671 18.578 42.139 -9.272 1.00 53.61 D 3377 CD2 LEU 671 19.409 43.482 -7.299 1.00 52.46 D 3378 C LEU 671 21.092 43.632 -11.334 1.00 60.95 D 3379 O LEU 671 20.006 43.804 -11.891 1.00 61.87 D 3380 N LEU 672 22.117 44.476 -11.420 1.00 60.54 D 3381 CA LEU 672 22.810 46.795 -11.402 1.00 58.78 D 3383 CG LEU 672 22.413 46.856 -9.938 1.00 58.99 D 3384 CD1 LEU 672 23.175 47.964 -9.225 1.00 57.12 D 3385 CD2 LEU 672 22.726 45.538 -13.515 1.00 62.31 D 3386 C LEU 672 23.130 46.520 -14.136 1.00 63.27 D 3387 O LEU 672 23.130 46.520 -14.136 1.00 63.27 D 3388 N SER 673 22.826 44.295 -13.972 1.00 64.36 D 3390 CB SER 673 23.144 41.590 -15.336 1.00 63.96 D 3391 OG SER 673 23.440 44.150 -16.570 1.00 70.84 D 3393 O SER 673 23.468 43.919 -17.608 1.00 71.75 D		3372	N	LEU	671	22.786	42.095	-10.629	1.00	60.29	D
3375 CG LEU 671 19.589 43.177 -8.782 1.00 55.23 D 3376 CD1 LEU 671 18.578 42.139 -9.272 1.00 53.61 D 3377 CD2 LEU 671 19.409 43.482 -7.299 1.00 52.46 D 3378 C LEU 671 21.092 43.632 -11.334 1.00 60.95 D 3379 O LEU 671 20.006 43.804 -11.891 1.00 61.87 D 3380 N LEU 672 22.117 44.476 -11.420 1.00 60.54 D 3381 CA LEU 672 22.810 46.795 -11.402 1.00 58.78 D 3383 CG LEU 672 22.413 46.856 -9.938 1.00 58.99 D 3384 CD1 LEU 672 23.175 47.964 -9.225 1.00 57.12 D 3385 CD2 LEU 672 22.726 45.538 -13.515 1.00 62.31 D 40 3387 O LEU 672 23.130 46.520 -14.136 1.00 63.27 D 3388 N SER 673 22.826 44.295 -13.972 1.00 64.36 D 3390 CB SER 673 23.144 41.590 -15.336 1.00 63.96 D 3391 OG SER 673 23.468 43.919 -17.608 1.00 73.68 D	25	3373	CA	LEU	671	21.359	42.389	-10.500	1.00	59.73	D
3376 CD1 LEU 671 18.578 42.139 -9.272 1.00 53.61 D 3377 CD2 LEU 671 19.409 43.482 -7.299 1.00 52.46 D 3378 C LEU 671 21.092 43.632 -11.334 1.00 60.95 D 3379 O LEU 671 20.006 43.804 -11.891 1.00 61.87 D 3380 N LEU 672 22.117 44.476 -11.420 1.00 60.54 D 3381 CA LEU 672 22.058 45.718 -12.168 1.00 60.50 D 3382 CB LEU 672 22.810 46.795 -11.402 1.00 58.78 D 3383 CG LEU 672 22.413 46.856 -9.938 1.00 58.78 D 3384 CD1 LEU 672 23.175 47.964 -9.225 1.00 57.12 D 3385 CD2 LEU 672 20.914 47.072 -9.865 1.00 58.80 D 3386 C LEU 672 22.726 45.538 -13.515 1.00 62.31 D 45 3387 O LEU 672 23.130 46.520 -14.136 1.00 63.27 D 3388 N SER 673 22.826 44.295 -13.972 1.00 64.36 D 3390 CB SER 673 23.144 41.590 -15.336 1.00 63.96 D 3391 OG SER 673 23.144 41.590 -15.336 1.00 63.96 D 3393 O SER 673 23.468 43.919 -17.608 1.00 70.84 D 3394 N SER 674 21.562 44.495 -16.587 1.00 73.68 D		3374	СВ	LEU	671	21.003	42.662	-9.035	1.00	57.31	D
3377 CD2 LEU 671 19.409 43.482 -7.299 1.00 52.46 D 3378 C LEU 671 21.092 43.632 -11.334 1.00 60.95 D 3379 O LEU 671 20.006 43.804 -11.891 1.00 61.87 D 3380 N LEU 672 22.117 44.476 -11.420 1.00 60.54 D 3381 CA LEU 672 22.058 45.718 -12.168 1.00 60.50 D 3382 CB LEU 672 22.810 46.795 -11.402 1.00 58.78 D 3383 CG LEU 672 22.413 46.856 -9.938 1.00 58.99 D 3384 CD1 LEU 672 23.175 47.964 -9.225 1.00 57.12 D 3385 CD2 LEU 672 20.914 47.072 -9.865 1.00 58.80 D 3386 C LEU 672 22.726 45.538 -13.515 1.00 62.31 D 45 3387 O LEU 672 23.130 46.520 -14.136 1.00 63.27 D 3388 N SER 673 22.826 44.295 -13.972 1.00 64.36 D 3390 CB SER 673 23.527 43.991 -15.217 1.00 67.18 D 3391 OG SER 673 23.144 41.590 -15.336 1.00 63.96 D 3392 C SER 673 23.468 43.919 -17.608 1.00 70.84 D 3393 O SER 673 23.468 43.919 -17.608 1.00 73.68 D		3375	CG	LEU	671	19.589	43.177	-8.782	1.00	55.23	D
3377 CD2 LEU 671 19.409 43.482 -7.299 1.00 52.46 D 3378 C LEU 671 21.092 43.632 -11.334 1.00 60.95 D 3379 O LEU 671 20.006 43.804 -11.891 1.00 61.87 D 3380 N LEU 672 22.117 44.476 -11.420 1.00 60.54 D 3381 CA LEU 672 22.058 45.718 -12.168 1.00 60.50 D 3382 CB LEU 672 22.810 46.795 -11.402 1.00 58.78 D 3383 CG LEU 672 22.413 46.856 -9.938 1.00 58.99 D 3384 CD1 LEU 672 23.175 47.964 -9.225 1.00 57.12 D 3385 CD2 LEU 672 20.914 47.072 -9.865 1.00 58.80 D 3386 C LEU 672 22.726 45.538 -13.515 1.00 62.31 D 45 3387 O LEU 672 23.130 46.520 -14.136 1.00 63.27 D 3388 N SER 673 22.826 44.295 -13.972 1.00 64.36 D 3390 CB SER 673 23.527 43.991 -15.217 1.00 67.18 D 3391 OG SER 673 23.144 41.590 -15.336 1.00 63.96 D 3392 C SER 673 23.468 43.919 -17.608 1.00 70.84 D 3393 O SER 673 23.468 43.919 -17.608 1.00 73.68 D		3376	CD1	LEU	671	18.578	42.139	-9.272	1.00	53.61	D
3379 O LEU 671 20.006 43.804 -11.891 1.00 61.87 D 3380 N LEU 672 22.117 44.476 -11.420 1.00 60.54 D 3381 CA LEU 672 22.058 45.718 -12.168 1.00 60.50 D 3382 CB LEU 672 22.810 46.795 -11.402 1.00 58.78 D 3383 CG LEU 672 22.413 46.856 -9.938 1.00 58.99 D 3384 CD1 LEU 672 23.175 47.964 -9.225 1.00 57.12 D 3385 CD2 LEU 672 20.914 47.072 -9.865 1.00 58.80 D 3386 C LEU 672 22.726 45.538 -13.515 1.00 62.31 D 45 3387 O LEU 672 23.130 46.520 -14.136 1.00 63.27 D 3388 N SER 673 22.826 44.295 -13.972 1.00 64.36 D 3390 CB SER 673 23.527 43.991 -15.217 1.00 67.18 D 50 3391 OG SER 673 23.144 41.590 -15.336 1.00 63.96 D 3392 C SER 673 23.468 43.919 -17.608 1.00 70.84 D 55 3394 N SER 673 23.468 43.919 -17.608 1.00 73.68 D	30	3377	CD2	LEU	671	19.409	43.482	-7.299	1.00	52.46	D
3380 N LEU 672 22.117 44.476 -11.420 1.00 60.54 D 3381 CA LEU 672 22.058 45.718 -12.168 1.00 60.50 D 3382 CB LEU 672 22.810 46.795 -11.402 1.00 58.78 D 3383 CG LEU 672 22.413 46.856 -9.938 1.00 58.99 D 3384 CD1 LEU 672 23.175 47.964 -9.225 1.00 57.12 D 3385 CD2 LEU 672 20.914 47.072 -9.865 1.00 58.80 D 3386 C LEU 672 22.726 45.538 -13.515 1.00 62.31 D 45 3387 O LEU 672 23.130 46.520 -14.136 1.00 63.27 D 3388 N SER 673 22.826 44.295 -13.972 1.00 64.36 D 3389 CA SER 673 23.527 43.991 -15.217 1.00 67.18 D 50 3391 OG SER 673 23.144 41.590 -15.336 1.00 63.96 D 3392 C SER 673 22.840 44.150 -16.570 1.00 70.84 D 55 3394 N SER 674 21.562 44.495 -17.608 1.00 73.68 D		3378	С	LEU	671	21.092	43.632	-11.334	1.00	60.95	D
3381 CA LEU 672 22.058 45.718 -12.168 1.00 60.50 D 3382 CB LEU 672 22.810 46.795 -11.402 1.00 58.78 D 3383 CG LEU 672 22.413 46.856 -9.938 1.00 58.99 D 3384 CD1 LEU 672 23.175 47.964 -9.225 1.00 57.12 D 3385 CD2 LEU 672 20.914 47.072 -9.865 1.00 58.80 D 3386 C LEU 672 22.726 45.538 -13.515 1.00 62.31 D 45 3387 O LEU 672 23.130 46.520 -14.136 1.00 63.27 D 3388 N SER 673 22.826 44.295 -13.972 1.00 64.36 D 3390 CB SER 673 24.130 42.588 -15.146 1.00 66.06 D 3391 OG SER 673 23.144 41.590 -15.336 1.00 63.96 D 3392 C SER 673 23.468 43.919 -17.608 1.00 70.84 D 3394 N SER 674 21.562 44.495 -16.587 1.00 73.68 D		3379	0	LEU	671	20.006	43.804	-11.891	1.00	61.87	D
3382 CB LEU 672 22.810 46.795 -11.402 1.00 58.78 D 3383 CG LEU 672 22.413 46.856 -9.938 1.00 58.99 D 3384 CD1 LEU 672 23.175 47.964 -9.225 1.00 57.12 D 3385 CD2 LEU 672 20.914 47.072 -9.865 1.00 58.80 D 3386 C LEU 672 22.726 45.538 -13.515 1.00 62.31 D 45 3387 O LEU 672 23.130 46.520 -14.136 1.00 63.27 D 3388 N SER 673 22.826 44.295 -13.972 1.00 64.36 D 3389 CA SER 673 23.527 43.991 -15.217 1.00 67.18 D 3390 CB SER 673 24.130 42.588 -15.146 1.00 66.06 D 3391 OG SER 673 23.144 41.590 -15.336 1.00 63.96 D 3392 C SER 673 22.840 44.150 -16.570 1.00 70.84 D 3393 O SER 673 23.468 43.919 -17.608 1.00 71.75 D	35	3380	N	LEU	672	22.117	44.476	-11.420	1.00	60.54	D
3383 CG LEU 672 22.413 46.856 -9.938 1.00 58.99 D 3384 CD1 LEU 672 23.175 47.964 -9.225 1.00 57.12 D 3385 CD2 LEU 672 20.914 47.072 -9.865 1.00 58.80 D 3386 C LEU 672 22.726 45.538 -13.515 1.00 62.31 D 45 3387 O LEU 672 23.130 46.520 -14.136 1.00 63.27 D 3388 N SER 673 22.826 44.295 -13.972 1.00 64.36 D 3389 CA SER 673 23.527 43.991 -15.217 1.00 67.18 D 3390 CB SER 673 24.130 42.588 -15.146 1.00 66.06 D 3391 OG SER 673 23.144 41.590 -15.336 1.00 63.96 D 3392 C SER 673 22.840 44.150 -16.570 1.00 70.84 D 3393 O SER 673 23.468 43.919 -17.608 1.00 71.75 D 55 3394 N SER 674 21.562 44.495 -16.587 1.00 73.68 D		3381	CA	LEU	672	22.058	45.718	-12.168	1.00	60.50	D
40 3384 CD1 LEU 672 23.175 47.964 -9.225 1.00 57.12 D 3385 CD2 LEU 672 20.914 47.072 -9.865 1.00 58.80 D 3386 C LEU 672 22.726 45.538 -13.515 1.00 62.31 D 45 3387 O LEU 672 23.130 46.520 -14.136 1.00 63.27 D 3388 N SER 673 22.826 44.295 -13.972 1.00 64.36 D 3389 CA SER 673 23.527 43.991 -15.217 1.00 67.18 D 50 3390 CB SER 673 24.130 42.588 -15.146 1.00 66.06 D 3391 OG SER 673 23.144 41.590 -15.336 1.00 70.84 D 3393 O SER </td <td></td> <td>3382</td> <td>СВ</td> <td>LEU</td> <td>672</td> <td>22.810</td> <td>46.795</td> <td>-11.402</td> <td>1.00</td> <td>58.78</td> <td>D</td>		3382	СВ	LEU	672	22.810	46.795	-11.402	1.00	58.78	D
3384 CD1 LEU 672 23.175 47.964 -9.225 1.00 57.12 D 3385 CD2 LEU 672 20.914 47.072 -9.865 1.00 58.80 D 3386 C LEU 672 22.726 45.538 -13.515 1.00 62.31 D 45 3387 O LEU 672 23.130 46.520 -14.136 1.00 63.27 D 3388 N SER 673 22.826 44.295 -13.972 1.00 64.36 D 3389 CA SER 673 23.527 43.991 -15.217 1.00 67.18 D 3390 CB SER 673 24.130 42.588 -15.146 1.00 66.06 D 3391 OG SER 673 23.144 41.590 -15.336 1.00 63.96 D 3392 C SER 673 22.840 44.150 -16.570 1.00 70.84 D 3393 O SER 673 23.468 43.919 -17.608 1.00 71.75 D 55 3394 N SER 674 21.562 44.495 -16.587 1.00 73.68 D		3383	CG	LEU	672	22.413	46.856	-9.938	1.00	58.99	D
3386 C LEU 672 22.726 45.538 -13.515 1.00 62.31 D 3387 O LEU 672 23.130 46.520 -14.136 1.00 63.27 D 3388 N SER 673 22.826 44.295 -13.972 1.00 64.36 D 3389 CA SER 673 23.527 43.991 -15.217 1.00 67.18 D 3390 CB SER 673 24.130 42.588 -15.146 1.00 66.06 D 3391 OG SER 673 23.144 41.590 -15.336 1.00 63.96 D 3392 C SER 673 22.840 44.150 -16.570 1.00 70.84 D 3393 O SER 673 23.468 43.919 -17.608 1.00 71.75 D 55 3394 N SER 674 21.562 44.495 -16.587 1.00 73.68 D	40	3384	CD1	LEU	672	23.175	47.964	-9.225	1.00	57.12	D
45 3387 O LEU 672 23.130 46.520 -14.136 1.00 63.27 D 3388 N SER 673 22.826 44.295 -13.972 1.00 64.36 D 3389 CA SER 673 23.527 43.991 -15.217 1.00 67.18 D 3390 CB SER 673 24.130 42.588 -15.146 1.00 66.06 D 3391 OG SER 673 23.144 41.590 -15.336 1.00 63.96 D 3392 C SER 673 22.840 44.150 -16.570 1.00 70.84 D 3393 O SER 673 23.468 43.919 -17.608 1.00 71.75 D 55 3394 N SER 674 21.562 44.495 -16.587 1.00 73.68 D		3385	CD2	LEU	672	20.914	47.072	-9.865	1.00	58.80	D
3388 N SER 673 22.826 44.295 -13.972 1.00 64.36 D 3389 CA SER 673 23.527 43.991 -15.217 1.00 67.18 D 3390 CB SER 673 24.130 42.588 -15.146 1.00 66.06 D 3391 OG SER 673 23.144 41.590 -15.336 1.00 63.96 D 3392 C SER 673 22.840 44.150 -16.570 1.00 70.84 D 3393 O SER 673 23.468 43.919 -17.608 1.00 71.75 D 55 3394 N SER 674 21.562 44.495 -16.587 1.00 73.68 D		3386	С	LEU	672	22.726	45.538	-13.515	1.00	62.31	D
3389 CA SER 673 23.527 43.991 -15.217 1.00 67.18 D 3390 CB SER 673 24.130 42.588 -15.146 1.00 66.06 D 3391 OG SER 673 23.144 41.590 -15.336 1.00 63.96 D 3392 C SER 673 22.840 44.150 -16.570 1.00 70.84 D 3393 O SER 673 23.468 43.919 -17.608 1.00 71.75 D 55 3394 N SER 674 21.562 44.495 -16.587 1.00 73.68 D	45	3387	0	LEU	672	23.130	46.520	-14.136	1.00	63.27	D
3390 CB SER 673 24.130 42.588 -15.146 1.00 66.06 D 3391 OG SER 673 23.144 41.590 -15.336 1.00 63.96 D 3392 C SER 673 22.840 44.150 -16.570 1.00 70.84 D 3393 O SER 673 23.468 43.919 -17.608 1.00 71.75 D 55 3394 N SER 674 21.562 44.495 -16.587 1.00 73.68 D	ĺ	3388	N	SER	673	22.826	44.295	-13.972	1.00	64.36	D
3391 OG SER 673 23.144 41.590 -15.336 1.00 63.96 D 3392 C SER 673 22.840 44.150 -16.570 1.00 70.84 D 3393 O SER 673 23.468 43.919 -17.608 1.00 71.75 D 55 3394 N SER 674 21.562 44.495 -16.587 1.00 73.68 D		3389	CA	SER	673	23.527	43.991	-15.217	1.00	67.18	D
3391 OG SER 673 23.144 41.590 -15.336 1.00 63.96 D		3390	СВ	SER	673	24.130	42.588	-15.146	1.00	66.06	D
3393 O SER 673 23.468 43.919 -17.608 1.00 71.75 D 55 3394 N SER 674 21.562 44.495 -16.587 1.00 73.68 D	50	3391	OG	SER	673	23.144	41.590	-15.336	1.00	63.96	D
55 3394 N SER 674 21.562 44.495 -16.587 1.00 73.68 D		3392	С	SER	673	22.840	44.150	-16.570	1.00	70.84	D
		3393	0	SER	673	23.468	43.919	-17.608	1.00	71.75	D
3395 CA SER 674 20.911 44.726 -17.872 1.00 75.75 D	55	3394	N	SER	674	21.562	44.495	-16.587	1.00	73.68	D
		3395	CA	SER	674	20.911	44.726	-17.872	1.00	75.75	D

TABLE 2 (continued)

ATOM BIND	IC STRUC	TURE COOR AIN OF GRa I	DINATE D	ATA OBTAINI EX WITH FLU	ED FROM X JTICASONE	-RAY DIFFF PROPION/	RACTION F ATE AND A	ROM THE L TIF2 FRAG	IGAND MENT
ATOM	ATOM TYPE	RESIDUE	#	×	Υ	Z	occ	В	ATOM
3396	СВ	SER	674	20.813	43.430	-18.723	1.00	74.70	D
3397	OG	SER	674	19.856	42.496	-18.265	1.00	74.10	D
3398	С	SER	674	19.570	45.403	-17.662	1.00	76.88	D
3399	0	SER	674	18.859	45.143	-16.694	1.00	76.90	D
3400	N	VAL	675	19.266	46.333	-18.554	1.00	79.18	D
3401	CA	VAL	675	18.034	47.082	-18.465	1.00	82.02	D
3402	СВ	VAL	675	18.333	48.572	-18.122	1.00	81.32	D
3403	CG1	VAL	675	18.840	48.676	-16.689	1.00	80.99	D
3404	CG2	VAL	675	19.375	49.143	-19.084	1.00	81.53	D
3405	С	VAL	675	17.282	46.979	-19.783	1.00	84.34	D
3406	0	VAL	675	17.825	46.508	-20.788	1.00	84.33	D
3407	N	PRO	676	16.006	47.390	-19.792	1.00	86.71	D
3408	CD	PRO	676	15.247	48.061	-18.726	1.00	86.46	Δ
3409	CA	PRO	676	15.222	47.326	-21.019	1.00	89.31	D
3410	СВ	PRO	676	13.828	47.717	-20.540	1.00	88.04	D
3411	CG	PRO	676	14.130	48.722	-19.485	1.00	86.61	D
3412	С	PRO	676	15.832	48.341	-21.978	1.00	92.02	D
3413	0	PRO	676	16.330	49.381	-21.537	1.00	92.35	D
3414	N	LYS	677	15.842	48.036	-23.272	1.00	94.90	D
3415	CA	LYS	677	16.407	48.972	-24.244	1.00	97.63	D
3416	СВ	LYS	677	16.648	48.301	-25.598	1.00	98.89	D
3417	CG	LYS	677	16.682	49.263	-26.803	1.00	101.15	D
3418	CD	LYS	677	17.638	50.452	-26.628	1.00	103.43	D
3419	CE	LYS	677	17.643	51.363	-27.875	1.00	104.79	D
3420	NZ	LYS	677	18.011	50.655	-29.151	1.00	104.66	D
3421	С	LYS	677	15.422	50.100	-24.414	1.00	98.84	D
3422	0	LYS	677	14.555	50.055	-25.273	1.00	99.87	D
3423	N	ASP	678	15.573	51.114	-23.582	1.00	99.57	D
3424	CA	ASP	678	14.702	52.270	-23.583	1.00	100.29	D
3425	СВ	ASP	678	13.225	51.869	-23.734	1.00	101.68	D
3426	CG	ASP	678	12.772	51.830	-25.198	1.00	103.54	D
3427	OD1	ASP	678	13.319	52.599	-26.020	1.00	103.41	D
3428	OD2	ASP	678	11.855	51.040	-25.518	1.00	104.45	D
3429	С	ASP	678	14.951	52.811	-22.196	1.00	100.06	D
3430	0	ASP	678	14.945	54.020	-21.966	1.00	100.74	D

TABLE 2 (continued)

			TURE COOF							
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	3431	N	GLY	679	15.194	51.884	-21.272	1.00	98.77	D
	3432	CA	GLY	679	15.483	52.273	-19.906	1.00	96.64	D
10	3433	С	GLY	679	14.346	52.099	-18.930	1.00	95.05	D
	3434	0	GLY	679	13.198	51.851	-19.309	1.00	95.43	D
	3435	N	LEU	680	14.677	52.258	-17.653	1.00	93.10	D
15	3436	CA	LEU	680	13.712	52.103	-16.580	1.00	91.98	D
	3437	СВ	LEU	680	14.398	51.536	-15.332	1.00	91.95	D
	3438	CG	LEU	680	15.723	50.795	-15.513	1.00	91.77	D
	3439	CD1	LEU	680	16.303	50.412	-14.171	1.00	91.91	D
20	3440	CD2	LEU	680	15.494	49.569	-16.329	1.00	92.35	D
	3441	С	LEU	680	13.025	53.407	-16.199	1.00	90.95	D
	3442	0	LEU	680	13.467	54.493	-16.570	1.00	91.02	D
25	3443	N	LYS	681	11.943	53.271	-15.442	1.00	90.04	D
	3444	CA	LYS	681	11.173	54.410	-14.964	1.00	89.16	D
	3445	СВ	LYS	681	9.975	53.931	-14.143	1.00	89.45	D
	3446	CG	LYS	681	8.980	53.086	-14.913	1.00	89.94	D
30	3447	CD	LYS	681	7.670	52.959	-14.154	1.00	90.41	D
	3448	CE	LYS	681	6.800	51.866	-14.745	1.00	91.27	D
	3449	NZ	LYS	681	5.491	51.754	-14.056	1.00	91.68	D
35	3450	С	LYS	681	12.050	55.290	-14.087	1.00	88.34	D
	3451	0	LYS	681	11.866	56.508	-14.019	1.00	88.29	D
	3452	N	SER	682	13.008	54.656	-13.419	1.00	87.39	D
	3453	CA	SER	682	13.913	55.358	-12.521	1.00	86.48	D
40	3454	СВ	SER	682	13.803	54.761	-11.117	1.00	87.14	D
ĺ	3455	OG	SER	682	12.473	54.351	-10.838	1.00	87.46	D
	3456	С	SER	682	15.350	55.242	-13.012	1.00	85.57	D
45	3457	0	SER	682	16.278	55.196	-12.203	1.00	85.27	D
	3458	N	GLN	683	15.521	55.197	-14.330	1.00	84.91	D
Ì	3459	CA	GLN	683	16.844	55.073	-14.948	1.00	84.23	D
_	3460	СВ	GLN	683	16.787	55.515	-16.413	1.00	83.77	D
50	3461	CG	GLN	683	18.108	55.393	-17.157	1.00	84.51	D
Ì	3462	CD	GLN	683	18.644	53.969	-17.198	1.00	85.77	D
	3463	OE1	GLN	683	18.017	53.065	-17.766	1.00	85.99	D
55	3464	NE2	GLN	683	19.807	53.761	-16.595	1.00	85.67	D
ļ	3465	С	GLN	683	17.853	55.924	-14.204	1.00	83.55	D

TABLE 2 (continued)

			2000	DINATE DA	TABLE 2 (CO TA OBTAINED X WITH FLUT		RAY DIFFRA	ACTION FR	OM THE LIC	SAND
	ATOMIC BINDI	STRUC NG DOMA	TURE COOK! IIN OF GRa II	ONATE DA	TA OBTAINED X WITH FLUT	Т		OCC OCC	FIF2 FRAGN	ATOM
5	ATOM	ATOM	RESIDUE	#	×	Y	Z			
}	0.400	TYPE	GLN	683	18.961	55.482	-13.894	1.00	83.89	D D
ļ	3466 3467		GLU	684	17.447	57.147	-13.921	1.00	83.39	
10		CA	GLU	684	18.256	58.112	-13.203	1.00	83.70	
	3468	СВ	GLU	684	17.345	59.309	-12.795	1.00	86.45	
	3470	CG	GLU	684	15.864	58.957	-12.344	1.00	89.45	D
	3471	CD	GLU	684	14.753	59.125	-13.432	1.00	91.23	
15	3472	OE1	GLU	684	14.992	58.827	-14.626	1.00	91.14	
	3473	OE2	GLU	684	13.614	59.535	-13.077	1.00	91.97	
	3474	C	GLU	684	18.965	57.468	-11.988	1.00	81.53	
20	3475	0	GLU	684	20.201	57.396	-11.931	1.00	80.84	
	3476	N	LEU	685	18.157	56.968	-11.057	1.00	79.91	D
	3477	CA	LEU	685	18.585	56.321	-9.807	1.00	79.23	D
	3478	СВ	LEU	685	17.341	56.029	-8.964	1.00	78.87	D
25	3479	CG	LEU	685	17.327	56.378	-7.477	1.00	78.47	D
	3480	CD1	LEU	685	16.478	55.346	-6.740	1.00	79.03	D
	3481	CD2	LEU	685	18.742	56.376	10,000	1.00	79.20	D
30	3482	c	LEU	685	19.368	55.013		1.00	78.90	D
	3483	0	LEU	685	20.294	54.682	11.004		77.79	D
	3484	N	PHE	686	18.950	54.256	14.000	+	76.60	D
35	3485	CA	PHE	686	19.598	53.011	10,000		74.90	D
55	3486	СВ	PHE	686	19.024	52.503			73.91	D
	3487	CG	PHE	686	19.654	51.260			73.55	D
	3488	CD.	PHE	686	19.184	50.03		1 00	73.72	D
40	3489	CD	PHE	686	20.739	51.30			73.58	D
	349	CE	1 PHE	686		48.86			74.95	D
	349	1 CE	2 PHE	686		50.14	10.05		74.68	D
45	349	2 CZ	PHE	686		48.91 53.30				2 D
	349	3 C	PHE	686		53.30			70.00	3 D
	349	4 O	PHE			54.19				2 D
	349	95 N	ASP			54.18				3 D
50	349	96 C				55.5	12.00			8 D
	349	97 C	B ASP						80.7	6 D
	34	98 C		- 	20.050				0 80.4	2 D
55	34	99 OI	D1 ASF						0 81.3	33 D
	35	00 0	D2 ASF	68	21.700					

TABLE 2 (continued)

			TURE COOF AIN OF GRa						· · - · · · · · -	
5	ATOM	ATOM TYPE	RESIDUE	#	×	Y	Z	occ	В	ATOM
	3501	C	ASP	687	23.420	55.140	-11.623	1.00	77.82	D
	3502	0	ASP	687	24.649	55.192	-11.610	1.00	77.25	D
10	3503	N	GLU	688	22.676	55.560	-10.614	1.00	77.40	D
	3504	CA	GLU	688	23.326	56.105	-9.444	1.00	77.00	D
	3505	СВ	GLU	688	22.393	57.027	-8.699	1.00	79.26	D
15	3506	CG	GLU	688	23.115	57.790	-7.636	1.00	83.90	D
	3507	CD	GLU	688	22.167	58.405	-6.663	1.00	86.20	D
	3508	OE1	GLU	688	21.003	58.648	-7.061	1.00	87.82	D
	3509	OE2	GLU	688	22.587	58.648	-5.510	1.00	87.04	D
20	3510	C	GLU	688	23.724	54.954	-8.538	1.00	75.46	D
	3511	0	GLU	688	24.850	54.904	-8.027	1.00	75.05	D
	3512	Ν	ILE	689	22.789	54.032	-8.343	1.00	73.02	D
25	3513	CA	ILE	689	23.026	52.871	-7.514	1.00	70.61	D
	3514	СВ	ILE	689	21.731	52.082	-7.351	1.00	71.16	D
	3515	CG2	ILE	689	21.977	50.724	-6.687	1.00	69.86	D
	3516	CG1	ILE	689	20.775	52.947	-6.542	1.00	71.37	D
30	3517	CD1	ILE	689	19.540	52.267	-6.190	1.00	72.58	D
ĺ	3518	С	ILE	689	24.092	52.043	-8.186	1.00	69.08	D
	3519	0	ILE	689	25.093	51.694	-7.572	1.00	68.64	D
35	3520	N	ARG	690	23.898	51.758	-9.463	1.00	67.58	D
	3521	CA	ARG	690	24.882	50.980	-10.186	1.00	67.61	D
[3522	СВ	ARG	690	24.491	50.855	-11.644	1.00	65.92	D
. [3523	CG	ARG	690	25.464	50.007	-12.435	1.00	65.20	D
40	3524	CD	ARG	690	24.717	49.473	-13.621	1.00	66.02	D
	3525	NE	ARG	690	25.445	48.547	-14.481	1.00	64.92	D
	3526	CZ	ARG	690	26.646	48.781	-14.997	1.00	65.68	D
45	3527	NH1	ARG	690	27.285	49.912	-14.727	1.00	65.29	D
	3528	NH2	ARG	690	27.179	47.904	-15.839	1.00	66.43	D
	3529	С	ARG	690	26.308	51.527	-10.117	1.00	68.89	D
50	3530	0	ARG	690	27.264	50.756	-10.127	1.00	70.04	D
50	3531	N	MET	691	26.465	52.846	-10.065	1.00	70.17	D
Ì	3532	CA	MET	691	27.795	53.438	-10.002	1.00	70.49	D
İ	3533	СВ	MET	691	27.708	54.940	-10.291	1.00	73.73	D
55	3534	CG	MET	691	29.047	55.648	-10.500	1.00	77.42	D
	3535	SD	MET	691	29.970	54.941	-11.898	1.00	82.38	D

TABLE 2 (continued)

	ATON BINE	MIC STRU	CTURE COO IAIN OF GRa	RDINATE I	DATA OBTAII LEX WITH FL	NED FROM LUTICASON	X-RAY DIFF	RACTION NATE AND	FROM THE A TIF2 FRA	LIGAND
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	3536	CE	MET	691	31.370	54.338	-11.036	1.00	81.52	D
	3537	С	MET	691	28.418	53.205	-8.626	1.00	69.68	D
10	3538	0	MET	691	29.625	52.981	-8.506	1.00	68.71	D
	3539	N	THR	692	27.579	53.256	-7.591	1.00	69.09	D
	3540	CA	THR	692	28.033	53.068	-6.213	1.00	68.99	D
15	3541	СВ	THR	692	26.918	53.278	-5.201	1.00	68.68	D
	3542	OG1	THR	692	26.208	54.478	-5.503	1.00	68.25	D
	3543	CG2	THR	692	27.518	53.382	-3.812	1.00	68.52	D
	3544	С	THR	692	28.572	51.672	-5.977	1.00	69.04	D
20	3545	0	THR	692	29.567	51.491	-5.258	1.00	68.26	D
	3546	N	TYR	693	27.901	50.672	-6.543	1.00	68.04	D
	3547	CA	TYR	693	28.422	49.339	-6.376	1.00	67.90	D
?5	3548	СВ	TYR	693	27.340	48.267	-6.564	1.00	67.99	D
	3549	CG	TYR	693	26.389	48.214	-5.384	1.00	68.55	D
	3550	CD1	TYR	693	26.855	47.903	-4.103	1.00	67.96	D
	3551	CE1	TYR	693	26.014	47.999	-2.991	1.00	68.49	D
30	3552	CD2	TYR	693	25.056	48.599	-5.523	1.00	67.38	D
	3553	CE2	TYR	693	24.216	48.696	-4.424	1.00	67.56	D
	3554	CZ	TYR	693	24.699	48.402	-3.160	1.00	68.22	D
5	3555	ОН	TYR	693	23.879	48.568	-2.066	1.00	68.00	D
	3556	С	TYR	693	29.597	49.128	-7.320	1.00	67.31	D
	3557	0	TYR	693	30.340	48.184	-7.142	1.00	67.67	D
^	3558	N	ILE	694	29.810	49.978	-8.321	1.00	67.26	D
0	3559	CA	ILE	694	30.994	49.711	-9.133	1.00	68.01	D
	3560	СВ	ILE	694	30.998	50.412	-10.506	1.00	67.45	D
	3561	CG2	ILE	694	32.387	50.264	-11.151	1.00	64.83	D
5	3562	CG1	ILE	694	29.964	49.750	-11.419	1.00	66.41	D
	3563	CD1	ILE	694	29.460	50.643	-12.516	1.00	63.94	D
	3564	С	ILE	694	32.218	50.151	-8.346	1.00	68.58	
,	3565	0	ILE	694	33.273	49.533	-8.434	1.00	67.69	D
	3566	N	LYS	695	32.073	51.216	-7.566	1.00	69.57	D
	3567	CA	LYS	695	33.187	51.680	-6.755	1.00	70.84	D
	3568	СВ	LYS	695	32.959	53.124	-6.318	1.00	72.69	
	3569	CG	LYS	695	33.000	54.142	-7.451	1.00	74.90	D
	3570	CD	LYS	695	32.390	55.440	-6.948	1.00	76.94	D

TABLE 2 (continued)

			TURE COOF							
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	3571	CE	LYS	695	32.702	56.654	-7.812	1.00	78.21	D
	3572	NZ	LYS	695	32.248	57.896	-7.098	1.00	78.41	D
10	3573	С	LYS	695	33.293	50.757	-5.539	1.00	70.27	D
	3574	0	LYS	695	34.367	50.579	-4.967	1.00	70.82	D
	3575	N	GLU	696	32.168	50.170	-5.155	1.00	69.31	D
15	3576	CA	GLU	696	32.146	49.253	-4.033	1.00	68.61	D
	3577	СВ	GLU	696	30.702	48.845	-3.749	1.00	69.60	D
	3578	CG	GLU	696	30.362	48.549	-2.281	1.00	71.86	D
	3579	CD	GLU	696	31.072	49.454	-1.271	1.00	72.47	D
20	3580	OE1	GLU	696	30.972	50.702	-1.370	1.00	73.30	D
	3581	OE2	GLU	696	31.730	48.892	-0.364	1.00	72.64	D
	3582	С	GLU	696	32.998	48.053	-4.456	1.00	68.13	D
25	3583	0	GLU	696	33.702	47.452	-3.635	1.00	68.67	D
	3584	N	LEU	697	32.942	47.722	-5.747	1.00	66.69	D
	3585	CA	LEU	697	33.730	46.618	-6.278	1.00	64.43	D
	3586	СВ	LEU	697	33.386	46.321	-7.745	1.00	61.53	D
30	3587	CG	LEU	697	34.306	45.230	-8.301	1.00	60.09	D
	3588	CD1	LEU	697	34.268	44.066	-7.340	1.00	58.33	D
	3589	CD2	LEU	697	33.902	44.789	-9.690	1.00	58.82	D
35	3590	С	LEU	697	35.165	47.078	-6.190	1.00	64.59	D
	3591	0	LEU	697	36.064	46.325	-5.824	1.00	65.27	D
	3592	N	GLY	698	35.363	48.345	-6.518	1.00	65.37	D
	3593	CA	GLY	698	36.689	48.930	-6.489	1.00	66.92	D
40	3594	С	GLY	698	37.407	48.840	-5.154	1.00	67.72	D
	3595	0	GLY	698	38.576	48.466	-5.112	1.00	66.59	D
	3596	N	LYS	699	36.716	49.198	-4.072	1.00	69.34	D
45	3597	CA	LYS	699	37.292	49.149	-2.725	1.00	70.05	D
	3598	СВ	LYS	699	36.300	49.663	-1.706	1.00	70.00	D
	3599	CG	LYS	699	35.875	51.067	-1.896	1.00	71.97	D
	3600	CD	LYS	699	34.768	51.376	-0.924	1.00	72.69	D
50	3601	CE	LYS	699	34.729	52.853	-0.670	1.00	74.06	D
	3602	NZ	LYS	699	33.664	53.216	0.290	1.00	77.09	D
	3603	С	LYS	699	37.630	47.721	-2.332	1.00	71.03	D
55	3604	0	LYS	699	38.694	47.449	-1.771	1.00	70.60	D
	3605	N	ALA	700	36.690	46.819	-2.591	1.00	71.91	D

TABLE 2 (continued)

	ATOM BIND	C STRUC	TURE COOR AIN OF GRa I	DINATE DA	ATA OBTAINE EX WITH FLU	D FROM X	RAY DIFFR	ACTION FI	ROM THE L	IGAND MENT
5	ATOM	ATOM TYPE	RESIDUE	#	х	Υ	Z	occ	В	ATOM
	3606	CA	ALA	700	36.875	45.422	-2.268	1.00	72.27	D
	3607	СВ	ALA	700	35.713	44.601	-2.790	1.00	71.48	D
10	3608	С	ALA	700	38.171	45.004	-2.938	1.00	73.71	D
	3609	0	ALA	700	38.994	44.321	-2.333	1.00	73.83	D
	3610	N	ILE	701	38.351	45.434	-4.184	1.00	75.21	D
15	3611	CA	ILE	701	39.564	45.110	-4.927	1.00	77.37	D
.5	3612	СВ	ILE	701	39.509	45.654	-6.370	1.00	76.34	D
	3613	CG2	ILE	701	40.884	45.535	-7.015	1.00	74.87	D
	3614	CG1	ILE	701	38.471	44.881	-7.185	1.00	76.01	D
20	3615	CD1	ILE	701	38.142	45.515	-8.531	1.00	75.37	D
	3616	С	ILE	701	40.832	45.656	-4.255	1.00	79.07	D
	3617	0	ILE	701	41.787	44.909	-4.047	1.00	79.07	D
25	3618	N	VAL	702	40.846	46.952	-3.919	1.00	81.82	D
	3619	CA	VAL	702	42.015	47.567	-3.280	1.00	84.95	D
	3620	СВ	VAL	702	41.891	49.117	-3.042	1.00	83.97	D
	3621	CG1	VAL	702	41.611	49.843	-4.326	1.00	82.62	D
30	3622	CG2	VAL	702	40.838	49.409	-1.989	1.00	84.13	D
	3623	С	VAL	702	42.358	47.002	-1.914	1.00	87.59	D
	3624	0	VAL	702	43.524	46.983	-1.539	1.00	88.96	D
35	3625	N	LYS	703	41.356	46.562	-1.157	1.00	89.94	D
	3626	CA	LYS	703	41.632	46.050	0.176	1.00	93.02	D
	3627	СВ	LYS	703	40.491	46.447	1.146	1.00	92.54	D
	3628	CG	LYS	703	39.544	45.321	1.640	1.00	92.88	D
40	3629	CD	LYS	703	38.695	45.782	2.857	1.00	93.01	D
	3630	CE	LYS	703	38.111	44.620	3.689	1.00	92.79	D
	3631	NZ	LYS	703	37.288	45.073	4.865	1.00	91.91	D
45	3632	С	LYS	703	41.898	44.549	0.243	1.00	95.67	D
	3633	0	LYS	703	41.770	43.948	1.301	1.00	96.69	D
	3634	N	ARG	704	42.300	43.942	-0.870	1.00	98.62	D
	3635	CA	ARG	704	42.564	42.501	-0.878	1.00	101.79	D
50	3636	СВ	ARG	704	41.570	41.781	-1.805	1.00	101.22	D
	3637	CG	ARG	704	41.793	40.262	-1.931	1.00	102.41	D
	3638	CD	ARG	704	41.167	39.671	-3.209	1.00	102.72	D
<i>55</i>	3639	NE	ARG	704	42.151	39.345	-4.247	1.00	103.97	D
	3640	CZ	ARG	704	42.771	38.170	-4.365	1.00	104.85	D

TABLE 2 (continued)

			TURE COOR							
5	ATOM	ATOM TYPE	RESIDUE	#	x	Y	Z	occ	В	ATOM
	3641	NH1	ARG	704	42.519	37.190	-3.505	1.00	105.29	D
	3642	NH2	ARG	704	43.647	37.972	-5.346	1.00	104.19	D
10	3643	С	ARG	704	43.962	42.238	-1.396	1.00	104.43	D
	3644	0	ARG	704	44.690	41.370	-0.910	1.00	104.44	D
	3645	N	GLU	705	44.303	43.031	-2.403	1.00	107.72	D
15	3646	CA	GLU	705	45.556	42.951	-3.126	1.00	110.81	D
	3647	СВ	GLU	705	45.508	43.963	-4.280	1.00	111.68	D
	3648	CG	GLU	705	45.679	43.371	-5.688	1.00	113.18	D
	3649	CD	GLU	705	44.861	42.108	-5.932	1.00	115.18	D
20	3650	OE1	GLU	705	43.628	42.131	-5.713	1.00	116.70	D
	3651	OE2	GLU	705	45.454	41.089	-6.355	1.00	116.07	D
	3652	С	GLU	705	46.853	43.097	-2.338	1.00	112.03	D
25	3653	0	GLU	705	47.368	42.128	-1.781	1.00	112.47	D
	3654	N	GLY	706	47.378	44.313	-2.286	1.00	113.33	D
	3655	CA	GLY	706	48.642	44.519	-1.616	1.00	115.12	D
	3656	С	GLY	706	49.598	44.812	-2.756	1.00	116.18	D
30	3657	0	GLY	706	50.261	43.918	-3.292	1.00	116.43	D
	3658	Ν	ASN	707	49.609	46.086	-3.131	1.00	116.60	D
	3659	CA	ASN	707	50.415	46.664	-4.208	1.00	116.29	D
35	3660	СВ	ASN	707	50.762	45.618	-5.279	1.00	116.94	D
	3661	CG	ASN	707	52.236	45.209	-5.260	1.00	117.97	D
	3662	OD1	ASN	707	52.875	45.106	-6.312	1.00	118.42	D
	3663	ND2	ASN	707	52.775	44.960	-4.069	1.00	118.55	D
40	3664	С	ASN	707	49.514	47.771	-4.776	1.00	115.24	D
	3665	0	ASN	707	48.949	48.546	-4.003	1.00	115.85	D
	3666	N	SER	708	49.359	47.857	-6.093	1.00	113.05	D
45	3667	CA	SER	708	48.501	48.896	-6.666	1.00	111.02	D
	3668	СВ	SER	708	48.887	50.285	-6.133	1.00	111.30	D
	3669	OG	SER	708	48.094	50.649	-5.015	1.00	110.98	D
50	3670	С	SER	708	48.501	48.939	-8.184	1.00	109.52	D
50	3671	0	SER	708	47.654	49.603	-8.788	1.00	109.82	D
Ì	3672	N	SER	709	49.454	48.266	-8.813	1.00	106.92	D
	3673	CA	SER	709	49.455	48.261	-10.267	1.00	104.39	D
55	3674	СВ	SER	709	50.868	48.082	-10.827	1.00	104.45	D
	3675	OG	SER	709	51.334	46.758	-10.667	1.00	104.39	D

TABLE 2 (continued)

	ATO	MIC STRU	CTURE COO	RDINATE	DATA OBTAI	NED FROM	X-RAY DIF	FRACTION	FROM THE	LIGAND
	BIN	DING DON	//AIN OF GRα	IN COMP	LEX WITH F	LUTICASON	NE PROPIO	NATE AND	A TIF2 FRA	GMENT
5	АТОМ	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	3676	С	SER	709	48.564	47.098	-10.668	1.00	102.82	D
10	3677	0	SER	709	47.962	47.094	-11.744	1.00	102.65	D
70	3678	N	GLN	710	48.465	46.108	-9.786	1.00	100.52	D
	3679	CA	GLN	710	47.622	44.966	-10.069	1.00	97.80	D
	3680	СВ	GLN	710	48.159	43.697	-9.379	1.00	100.41	D
15	3681	CG	GLN	710	48.133	43.680	-7.855	1.00	104.43	D
	3682	CD	GLN	710	48.672	44.953	-7.233	1.00	106.82	D
	3683	OE1	GLN	710	49.775	45.397	-7.559	1.00	108.23	D
00	3684	NE2	GLN	710	47.898	45.543	-6.329	1.00	108.12	D
20	3685	С	GLN	710	46.203	45.298	-9.622	1.00	94.01	D
	3686	0	GLN	710	45.322	44.442	-9.640	1.00	93.94	D
	3687	N	ASN	711	45.978	46.553	-9.240	1.00	89.32	D
25	3688	CA	ASN	711	44.640	46.949	-8.823	1.00	84.80	D
	3689	СВ	ASN	711	44.688	48.108	-7.839	1.00	84.11	D
	3690	CG	ASN	711	44.719	47.619	-6.411	1.00	84.22	D
00	3691	OD1	ASN	711	44.669	48.406	-5.474	1.00	84.93	D
30	3692	ND2	ASN	711	44.802	46.301	-6.237	1.00	83.76	D
	3693	С	ASN	711 1	43.714	47.252	-9.981	1.00	81.96	D
	3694	0	ASN	711	42.601	46.735	-10.017	1.00	81.02	D
35	3695	N	TRP	712	44.139	48.079	-10.930	1.00	78.84	D
	3696	CA	TRP	712	43.273	48.298	-12.073	1.00	75.28	D
	3697	СВ	TRP	712	43.780	49.379	-12.988	1.00	74.46	D
40	3698	CG	TRP	712	43.507	50.684	-12.489	1.00	73.88	D
40	3699	CD2	TRP	712	42.538	51.601	-12.996	1.00	74.08	D
	3700	CE2	TRP	712	42.647	52.778	-12.231	1.00	73.76	D
	3701	CE3	TRP	712	41.587	51.548	-14.032	1.00	74.01	D
45	3702	CD1	TRP	712	44.137	51.304	-11.464	1.00	73.42	D
	3703	NE1	TRP	712	43.631	52.565	-11.297	1.00	73.37	D
	3704	CZ2	TRP	712	41.841	53.901	-12.456	1.00	73.06	D
50	3705	CZ3	TRP	712	40.780	52.663	-14.258	1.00	72.71	D
50	3706	CH2	TRP	712	40.918	53.828	-13.474	1.00	72.39	D
	3707	С	TRP	712	43.287	47.025	-12.863	1.00	74.11	D
Ī	3708	0	TRP	712	42.325	46.687	-13.535	1.00	74.07	D
55	3709	N	GLN	713	44.388	46.304	-12.817	1.00	72.50	D
	3710	CA	GLN	713	44.379	45.095	-13.582	1.00	71.13	D
_							- <u> l</u>		,	

TABLE 2 (continued)

			TURE COOF		-					
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	3711	СВ	GLN	713	45.753	44.459	-13.606	1.00	72.88	D
	3712	CG	GLN	713	45.816	43.299	-14.564	1.00	73.89	D
10	3713	CD	GLN	713	47.108	42.544	-14.428	1.00	75.34	D
	3714	OE1	GLN	713	47.438	41.708	-15.269	1.00	76.79	D
	3715	NE2	GLN	713	47.847	42.826	-13.359	1.00	75.96	D
15	3716	С	GLN	713	43.349	44.128	-13.016	1.00	69.75	D
	3717	0	GLN	713	42.760	43.357	-13.764	1.00	69.68	D
	3718	N	ARG	714	43.125	44.181	-11.701	1.00	68.00	D
	3719	CA	ARG	714	42.162	43.294	-11.021	1.00	66.56	D
20	3720	СВ	ARG	714	42.267	43.521	-9.508	1.00	66.48	D
	3721	CG	ARG	714	41.495	42.575	-8.623	1.00	64.93	D
	3722	CD	ARG	714	42.015	41.157	-8.695	1.00	64.89	D
25	3723	NE	ARG	714	41.283	40.327	-7.752	1.00	64.24	D
	3724	CZ	ARG	714	41.209	39.007	-7.806	1.00	64.10	D
	3725	NH1	ARG	714	41.824	38.344	-8.770	1.00	63.98	D
	3726	NH2	ARG	714	40.496	38.351	-6.906	1.00	64.35	D
30	3727	С	ARG	714	40.757	43.636	-11.510	1.00	65.72	D
	3728	0	ARG	714	40.010	42.788	-12.009	1.00	64.06	D
	3729	N	PHE	715	40.422	44.905	-11.342	1.00	65.51	D
35	3730	CA	PHE	715	39.158	45.457	-11.757	1.00	66.56	D
	3731	СВ	PHE	715	39.241	46.968	-11.699	1.00	65.63	D
	3732	CG	PHE	715	37.954	47.644	-11.950	1.00	66.28	D
	3733	CD1	PHE	715	36.831	47.302	-11.209	1.00	67.11	D
40	3734	CD2	PHE	715	37.858	48.655	-12.890	1.00	66.76	D
	3735	CE1	PHE	715	35.629	47.956	-11.397	1.00	66.49	D
	3736	CE2	PHE	715	36.650	49.324	-13.090	1.00	66.75	D
45	3737	CZ	PHE	715	35.535	48.974	-12.339	1.00	66.22	D
İ	3738	С	PHE	715	38.876	45.034	-13.182	1.00	67.61	D
İ	3739	0	PHE	715	37.832	44.448	-13.488	1.00	69.43	D
	3740	N	TYR	716	39.818	45.349	-14.056	1.00	67.76	D
50	3741	CA	TYR	716	39.691	45.012	-15.452	1.00	67.50	D
Ì	3742	СВ	TYR	716	40.993	45.341	-16.172	1.00	68.51	D
ļ	3743	CG	TYR	716	40.999	44.951	-17.618	1.00	69.44	D
55	3744	CD1	TYR	716	40.438	45.773	-18.594	1.00	69.90	D
Ī	3745	CE1	TYR	716	40.411 1	45.381	-19.929	1.00	71.02	D

TABLE 2 (continued)

ſ	ATOMI	C STRUC	TURE COORD	INATE DAT	A OBTAINE! (WITH FLUT	FROM X-	PROPIONA			IENT
5	ATOM	ATOM TYPE	RESIDUE	#	X	Υ	Z			
	3746	CD2	TYR	716	41.538	43.733	-18.006	1.00	70.06	D
	3747	CE2	TYR	716	41.516	43.332	-19.321	1.00	71.47	
10	3748	CZ	TYR	716	40.953	44.155	-20.282	1.00	71.73	
	3749	ОН	TYR	716	40.934	43.726	-21.590	1.00	73.37	D
	3750	C	TYR	716	39.327	43.532	-15.592	1.00	67.55	D
	3751	0	TYR	716	38.400	43.191	-16.321	1.00	68.03	<u>D</u>
15	3752	N	GLN	717	40.020	42.655	-14.879	1.00	67.25	D
	3753	CA	GLN	717	39.711	41.230	-14.973	1.00	68.01	D
	3754	СВ	GLN	717	40.794	40.384	-14.327	1.00	69.66	D
20	3755	CG	GLN	717	42.189	40.709	-14.740	1.00	72.77	D
	3756	CD	GLN	717	43.173	39.799	-14.052	1.00	75.40	D
	3757	OE1	GLN	717	43.559	40.028	-12.899	1.00	76.60	D
	3758	NE2	GLN	717	43.566	38.738	-14.744	1.00	76.67	D
25	3759	C	GLN	717	38.387	40.863	-14.307	1.00	67.82	D
	3760	0	GLN	717	37.608	40.067	-14.848	1.00	67.36	D
	3761	N	LEU	718	38.132	41.405	-13.120	1.00	66.52	D
30	3762	CA	LEU	718	36.879	41.066	-12.470	1.00	64.77	D
		CB	LEU	718	36.784	41.711	-11.078	1.00	62.27	D
	3763	CG	LEU	718	37.739	41.100	-10.040	1.00	60.26	D
	3764	CD1	LEU	718	37.496	41.700	-8.674	1.00	58.48	D
35	3765	CD2	LEU	718	37.529	39.596	-9.976	1.00	60.78	D
	3766		LEU	718	35.731	41.493	-13.390	1.00	64.36	D
	3767		LEU	718	34.859	40.686	-13.713	1.00	63.38	D
40	3768		THR	719	35.760	42.740	-13.855	1.00	64.39	D
	3769	+	THR	719	34.704	43.227	-14.738	1.00	65.59	D
	3770		THR	719	34.833	44.729	-14.972	1.00	64.69	D
	3771			719	36.133	45.020	-15.505	1.00	63.56	D
45	3772			719	34.637	45.477	-13.660	1.00	64.71	D
	3773		THR	719	34.648	42.507	-16.090	1.00	66.44	D
	3774		THR	719	33.690	42.67	4 -16.853	1.00	66.27	
50	3775		LYS	720	35.666	41.70	9 -16.396	1.00	67.02	
	377			720	35.650	40.98	0 -17.65	1.00	66.94	
	377			720	37.048	40.49	7 -18.03	6 1.00	69.93	D
	377			720	37.235	40.30	7 -19.54	7 1.00	74.14	
55	377			720	37.418	41.65	6 -20.26	2 1.00	77.44	D

TABLE 2 (continued)

			TURE COOF AIN OF GRα							
5	MOTA	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
	3781	CE	LYS	720	37.399	41.534	-21.799	1.00	79.51	D
	3782	NZ	LYS	720	37.765	42.813	-22.503	1.00	80.62	D
10	3783	С	LYS	720	34.741	39.789	-17.405	1.00	65.29	D
	3784	0	LYS	720	33.925	39.420	-18.247	1.00	65.38	D
	3785	N	LEU	721	34.881	39.207	-16.218	1.00	63.82	D
15	3786	CA	LEU	721	34.073	38.068	-15.818	1.00	62.57	D
	3787	СВ	LEU	721	34.473	37.616	-14.420	1.00	60.12	D
	3788	CG	LEÚ	721	34.373	36.116	-14.199	1.00	60.11	D
	3789	CD1	LEU	721	34.104	35.890	-12.732	1.00	59.49	D
20	3790	CD2	LEU	721	33.261	35.499	-15.051	1.00	59.33	D
	3791	С	LEU	721	32.596	38.467	-15.823	1.00	62.94	D
	3792	0	LEU	721	31.732	37.701	-16.263	1.00	63.51	D
25	3793	Ν	LEU	722	32.315	39.666	-15.324	1.00	62.68	D
	3794	CA	LEU	722	30.951	40.170	-15.287	1.00	62.47	D
	3795	СВ	LEU	722	30.926	41.583	-14.698	1.00	61.57	D
	3796	CG	LEU	722	31.240	41.519	-13.203	1.00	60.98	D
30	3797	CD1	LEU	722	31.132	42.877	-12.563	1.00	59.96	D
	3798	CD2	LEU	722	30.267	40.535	-12.553	1.00	59.00	D
	3799	С	LEU	722	30.347	40.167	-16.675	1.00	63.61	D
35	3800	0	LEU	722	29.330	39.525	-16.898	1.00	64.24	D
	3801	N	ASP	723	30.983	40.866	-17.609	1.00	63.93	D
	3802	CA	ASP	723	30.493	40.952	-18.983	1.00	63.89	D
	3803	СВ	ASP	723	31.462	41.748	-19.844	1.00	64.74	D
40	3804	CG	ASP	723	31.485	43.200	-19.481	1.00	66.67	D
	3805	OD1	ASP	723	30.530	43.657	-18.817	1.00	68.28	D
	3806	OD2	ASP	723	32.445	43.890	-19.868	1.00	65.20	D
45	3807	С	ASP	723	30.280	39.608	-19.652	1.00	64.20	D
	3808	0	ASP	723	29.408	39.456	-20.509	1.00	63.99	D
	3809	N	SER	724	31.089	38.635	-19.263	1.00	64.29	D
	3810	CA	SER	724	31.009	37.311	-19.855	1.00	64.18	D
50	3811	СВ	SER	724	32.353	36.610	-19.706	1.00	64.03	D
	3812	OG	SER	724	32.261	35.556	-18.769	1.00	65.88	D
	3813	С	SER	724	29.912	36.478	-19.218	1.00	63.99	D
55	3814	0	SER	724	29.685	35.322	-19.585	1.00	63.80	D
	3815	N	MET	725	29.234	37.086	-18.256	1.00	63.58	D

						TABLE 2 (C				CTION FRO	OM THE LI	GANI	
Γ	ATOMIC	STRUC	TURE (COORDIN	ATE DATA	TABLE 2 (C A OBTAINEI WITH FLUT	D FROM X- FICASONE	PRO	PIONATI	E AND A T	IF2 FRAGI	AENT ATC	M
5	ATOM	ATOM	RESI	DUE	#	Х	Υ	Z	2	OCC			
		TYPE	ME		725	28.157	36.433	-17.	533	1.00	62.50	D	
-	3816	CA		ET	725	27.944	37.184	-16.	.225	1.00	60.73		
	3817	CB		ET	725	27.507	36.347	-15	.077	1.00	59.86		
10	3818	CG SD		ET	725	28.599	34.988	-14	.747	1.00	57.82		
	3819	CE	 	IET I	725	27.340	33.823		.381	1.00	62.36		
	3820	C		IET	725	26.911	36.479	↓	3.410	1.00	61.95		
15	3821	10	 -	MET	725	26.014	35.645	↓ —	3.289	1.00	62.70		D
	3822	N		HIS	726	26.867	37.474	-	9.294	1.00	63.08	-	D
	3823	CA		HIS	726	25.754	37.598	+-	0.213	1.00	60.89	+	D
20	3824	CB	+	HIS	726	25.856	38.883		1.038	1.00	59.03	+-	D
	3825	CG	+	HIS	726	25.427	40.114	+-	0.295	1.00	58.37	+	D
	3827	CD2	-	HIS	726	24.277	40.399		9.634	1.00	58.24	+-	D
	3828	ND1	+-	HIS	726	26.228	41.224		20.171	1.00	57.37	+	D
25	3829	CE1	-	HIS	726	25.595	42.144		19.460 19.126	1.00	58.49	+	D
	3830	NE2	 	HIS	726	24.413	41.669		21.115	1.00	64.70		D
	3831			HIS	726	25.850	36.38		21.113	1.00	65.01	\top	D
30	3832		1	HIS	726	24.873	35.67		-21.641	1.00	67.88		D
	3833			GLU	727	27.031	36.09		-22.504	1.00	70.5		D
	3834	CA		GLU	727	27.092	34.93		-23.293	1.00	72.69	9	D
35	383	5 CB		GLU	727	28.390	34.86		-24.552	1.00	77.4	7	D
33	383	6 CG		GLU	727	28.196	33.4		-25.082		82.0	2	D
	383	7 CE	,	GLU	727	29.485		-+	-25.072		84.5	1	D
	383	8 OE	1	GLU	727	30.495			-25.512	1 20	83.2	9	D
40	383	9 OE	2	GLU	727	29.483		+	-21.825		71.1	4	D
	384	10 C		GLU	727	26.842		+	-22.47	-+	71.0	57	D
	38	41 C)	GLU	727			+	-20.55		71.	39	D
45	; 38	42 N		VAL	728				-19.99	2 1.00	71.	03	D
	38	43 C	Α	VAL	728			638	-18.75	0 1.00	70.	84	D
	38	44 C	В	VAL	728	20.70		749	-18.29	8 1.00	70	.06	D
_		45 C	G1	VAL	728			121	-17.60	9 1.0	0 69	.97	D
5	38	346 C	G2	VAL	721			.019	-19.65	57 1.0		.61	D
	31	347	C	VAL	72			.964	-19.80	00 1.0		.41	D
	3	848	<u> </u>	VAL	72			.146	-19.2	52 1.0		.03	D
i	55 3	849	N	VAL	72			3.165	-18.9	48 1.0	00 72	2.03	D
	3	850	CA	VAL		.5							

			TURE COOF							
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	3851	СВ	VAL	729	22.929	34.527	-18.317	1.00	72.41	D
	3852	CG1	VAL	729	21.547	34.949	-18.822	1.00	72.84	D
10	3853	CG2	VAL	729	22.873	34.382	-16.811	1.00	72.63	D
	3854	С	VAL	729	22.560	32.872	-20.216	1.00	72.63	D
	3855	0	VAL	729	21.558	32.166	-20.173	1.00	72.16	D
15	3856	N	GLU	730	22.996	33.403	-21.351	1.00	74.69	D
	3857	CA	GLU	730	22.289	33.131	-22.592	1.00	77.21	D
	3858	СВ	GLU	730	23.013	33.756	-23.783	1.00	78.90	D
	3859	CG	GLU	730	22.218	33.663	-25.068	1.00	83.32	D
20	3860	CD	GLU	730	22.836	34.458	-26.198	1.00	86.77	D
	3861	OE1	GLU	730	23.326	35.580	-25.931	1.00	88.49	D
	3862	OE2	GLU	730	22.811	33.962	-27.351	1.00	88.56	D
25	3863	С	GLU	730	22.195	31.610	-22.771	1.00	77.66	D
	3864	0	GLU	730	21.104	31.057	-22.852	1.00	77.32	D
	3865	N	ASN	731	23.342	30.934	-22.801	1.00	78.69	D
	3866	CA	ASN	. 731	23.362	29.482	-22.972	1.00	79.39	D
30	3867	СВ	ASN	731	24.808	29.046	-23.172	1.00	80.51	D
	3868	CG	ASN	731	25.367	29.753	-24.340	1.00	81.74	D
[3869	OD1	ASN	731	26.524	29.646	-24.728	1.00	83.00	D
35	3870	ND2	ASN	731	24.483	30.534	-24.946	1.00	84.04	D
	3871	С	ASN	731	22.649	28.770	-21.864	1.00	79.09	D
Ī	3872	0	ASN	731	22.147	27.659	-22.040	1.00	78.14	D
. [3873	N	LEU	732	22.550	29.441	-20.731	1.00	79.35	D
40	3874	CA	LEU	732	21.838	28.846	-19.639	1.00	79.99	D
	3875	СВ	LEU	732	22.253	29.475	-18.331	1.00	78.02	D
	3876	CG	LEU	732	23.448	28.662	-17.877	1.00	76.80	D
45	3877	CD1	LEU	732	23.803	29.107	-16.496	1.00	76.83	D
[3878	CD2	LEU	732	23.124	27.158	-17.905	1.00	76.26	D
	3879	С	LEU	732	20.349	28.977	-19.856	1.00	81.89	D
50	3880	0	LEU	732	19.600	28.065	-19.510	1.00	83.06	D
50	3881	N	LEU	733	19.913	30.090	-20.442	1.00	83.07	D
Ī	3882	CA	LEU	733	18.487	30.283	-20.705	1.00	83.87	D
1	3883	СВ	LEU	733	18.172	31.759	-20.959	1.00	82.93	D
55	3884	CG	LEU	733	18.209	32.702	-19.752	1.00	82.42	D
	3885	CD1	LEU	733	18.026	34.120	-20.244	1.00	81.62	D

TABLE 2 (continued)

				E COORDII			E 2 (CO		-RA	Y DIFFRA	CTION F	ROM	THE LIC	AND	
Γ	ATOMIC	STRI	UCTURI	E COORDII DF GRα IN (COMPLE)	x WIT	H FLUTI	CASONE	PR	OPIONAT	E AND A	111-2	R	ATO	M
5	ATOM	ATON	1	SIDUE	#	>	<	Υ		Z	000				_
	,,,,	TYPE			733	17.1	32	32.332	-1	8.738	1.00		1.48	<u>D</u>	
	3886	CD2		LEU	733	17.9	+	29.439	-2	21.873	1.00		5.02	<u>D</u>	
	3887	C		LEU	733	16.9		28.843	-2	21.764	1.00		4.76	D	
10	3888	0		LEU	734	18.		29.374	-2	22.979	1.00		36.42		
[3889	N		ASN	734	 	259	28.555	-:	24.100	1.00		38.57		+
	3890	CA		ASN	734	19.	306	28.424	-	25.236	1.00		88.99		5
15	3891	CE		ASN	734	19.	540	29.733	-	26.048	1.00		90.34		5-
1	3892	C		ASN	734	18	.745	30.685	; [-26.026	1.00		89.17		
	3893	OE		ASN	734	20	.652	29.748	3	-26.793	1.00		91.10	 -	<u> </u>
,	3894		02	ASN	734		.838	27.12	3	-23.646	1.00		90.13	├	
20	3895	┼		ASN	734	16	5.761	26.70	6	-24.049	1.00		90.87	-	D
	3896		0	ASN	735		3.631	26.38	0	-22.837	1.00	_	91.96	-	D D
	3897		N	TYR	735	11	8.235	24.99	0	-22.412	1.00		93.75	┼	D D
25	3898		CA	TYR	735	+1	9.265	24.17	76	-21.528	1.00	_	96.29	┼	D D
	3899		CB	TYR	735	+	9.019	22.64	10	-21.651	1.00		99.41	+-	D
	3900		CG	TYR	735	+	9.517	21.6	57	-20.741		-+	101.17	+-	D
	3901		CD1	TYR	735	-	9.286	20.2	62	-20.977			102.99	+	
30	3902		CE1	TYR	735		18.300	22.1	87	-22.738			100.65	+-	
	3903		CD2	TYR	735	-+	18.064	20.8	51	-22.963			101.77		
	3904	4	CE2	TYR	735		18.540	19.8	393	-22.097			103.45	-	
35	390	5	CZ	TYR	735		18.225	18.	584	-22.38			104.95		
	390	6	OH	TYR	735		17.015	25.	084	-21.56			93.60	_	
	390	7		TYR	735	 +	16.179	24.	194	-21.55			94.1	_+	
40	390	18	0	CYS	736	-+	16.907	26.	177	-20.84		00	92.8		
40	390		N	CYS	730	-+	15.803	26	.297	-19.94		00	92.1	-+	
	39		CA	CYS	73		16.125	27	.357			00	92.4		
	39		CB	CYS	73		14.842	27	.599			.00	91.0		
45		12	SG C	CYS	73		14.489	26	5.567			.00	91.	+	
		13	<u>c</u>	CYS		36	13.510	25	5.862			.00	91.	+	
		14	<u> </u>	PHE		37	14.457	2	7.583			.00	91.		
50	o	15	N CA	PHE		37	13.220) 2	7.872			1.00		.07	
	3	916	CA	PHE		37	13.420) 2	9.04			1.00		.03	D
		917		PHE		37	13.66	6 3	0.36			1.00		.41	D
		918	CG CD1			737	13.38	8 3	30.52			1.00		3.11	D
5	~	919	CD2			737	14.11	4	31.46	55 -23.	125	1.00			L
		920	CD2												

			TURE COOF AIN OF GRa							
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	3921	CE1	PHE	737	13.544	31.759	-20.422	1.00	84.26	D
	3922	CE2	PHE	737	14.274	32.706	-22.512	1.00	84.63	D
10	3923	CZ	PHE	737	13.991	32.854	-21.158	1.00	83.57	D
	3924	C	PHE	737	12.821	26.598	-22.896	1.00	92.41	D
	3925	0	PHE	737	11.734	26.054	-22.685	1.00	92.34	D
15	3926	N	GLN	738	13.730	26.120	-23.740	1.00	93.76	D
	3927	CA	GLN	738	13.534	24.904	-24.514	1.00	95.09	D
	3928	СВ	GLN	738	14.888	24.425	-25.027	1.00	96.20	D
	3929	CG	GLN	738	14.873	23.403	-26.136	1.00	97.39	D
20	3930	CD	GLN	738	16.275	23.176	-26.656	1.00	98.13	D
	3931	OE1	GLN	738	17.001	22.299	-26.178	1.00	98.35	D
	3932	NE2	GLN	738	16.680	23.997	-27.621	1.00	98.37	D
25	3933	C	GLN	738	12.922	23.873	-23.585	1.00	95.89	D
	3934	0	GLN	738	11.711	23.743	-23.530	1.00	96.25	D
	3935	N	THR	739	13.750	23.155	-22.837	1.00	97.17	D
	3936	CA	THR	739	13.224	22.160	-21.915	1.00	98.69	D
30	3937	СВ	THR	739	14.197	21.930	-20.764	1.00	98.17	D
	3938	OG1	THR	739	14.904	23.141	-20.495	1.00	98.69	D
	3939	CG2	THR	739	15.193	20.839	-21.115	1.00	98.02	D
35	3940	С	THR	739	11.831	22.533	-21.369	1.00	100.03	D
	3941	0	THR	739	10.915	21.708	-21.389	1.00	100.63	D
	3942	N	PHE	740	11.654	23.771	-20.921	1.00	101.15	D
40	3943	CA	PHE	740	10.358	24.205	-20.388	1.00	102.20	D
40	3944	СВ	PHE	740	10.470	25.629	-19.856	1.00	100.56	D
	3945	CG	PHE	740	9.179	26.181	-19.325	1.00	98.93	D
	3946	CD1	PHE	740	8.824	26.007	-17.994	1.00	98.31	D
45	3947	CD2	PHE	740	8.327	26.901	-20.152	1.00	97.96	D
	3948	CE1	PHE	740	7.647	26.542	-17.487	1.00	97.83	D
	3949	CE2	PHE	740	7.148	27.440	-19.658	1.00	97.24	D
50	3950	CZ	PHE	740	6.806	27.263	-18.320	1.00	97.30	D
30	3951	С	PHE	740	9.197	24.140	-21.385	1.00	104.02	D
	3952	0	PHE	740	8.043	23.978	-20.987	1.00	103.68	D
ļ	3953	N	LEU	741	9.495	24.291	-22.671	1.00	106.46	D
55	3954	CA	LEU	741	8.459	24.238	-23.696	1.00	109.10	D
	3955	СВ	LEU	741	8.630	25.383	-24.699	1.00	108.94	D

TABLE 2 (continued)

			IN OF GRα II			Y	Z	occ	В	ATOM
ATC	M	ATOM TYPE	RESIDUE	#	X	1				
395	56	CG	LEU	741	8.799	26.819	-24.195	1.00	108.65	D
395	57	CD1	LEU	741	8.890	27.741	-25.405	1.00	108.53	D
395	58	CD2	LEU	741	7.642	27.233	-23.299	1.00	108.26	D
395	59	С	LEU	741	8.493	22.901	-24.436	1.00	111.39	D
396	30	0	LEU	741	8.385	22.853	-25.666	1.00	111.44	D
39	61	N	ASP	742	8.663	21.821	-23.676	1.00	114.02	D
39	62	CA	ASP	742	8.684	20.465	-24.222	1.00	116.52	D
39	63	СВ	ASP	742	10.064	20.088	-24.764	1.00	117.48	D
39	64	CG	ASP	742	10.055	18.732	-25.451	1.00	119.20	D
39	65	OD1	ASP	742	11.132	18.125	-25.638	1.00	119.74	D
39	66	OD2	ASP	742	8.949	18.278	-25.818	1.00	120.17	D
39	67	С	ASP	742	8.329	19.488	-23.115	1.00	117.76	D
39	68	0	ASP	742	9.193	19.111	-22.319	1.00	117.68	D
39	69	N	LYS	743	7.073	19.060	-23.048	1.00	119.41	D
39	70	CA	LYS	743	6.746	18.138	-21.985	1.00	120.92	D
39	71	СВ	LYS	743	5.381	18.418	-21.393	1.00	121.59	D
39	72	CG	LYS	743	5.537	18.534	-19.898	1.00	122.24	D
39	73	CD	LYS	743	4.242	18.414	-19.164	1.00	122.77	D
39	74	CE	LYS	743	3.312	19.572	-19.487	1.00	122.90	D
39	75	NZ	LYS	743	3.995	20.761	-20.080	1.00	122.44	D
39	76	С	LYS	743	6.885	16.671	-22.315	1.00	121.35	D
39	77	0	LYS	743	6.565	15.808	-21.495	1.00	121.83	D
39	78	N	THR	744	7.360	16.393	-23.523	1.00	121.55	D
39	979	CA	THR	744	7.625	15.018	-23.914	1.00	121.69	D
39	980	СВ	THR	744	8.228	14.930	-25.334	1.00	122.15	D
39	981	OG1	THR	744	8.139	16.208	-25.970	1.00	122.30	D
39	982	CG2	THR	744	7.487	13.903	-26.177	1.00	122.06	D
39	983	С	THR	744	8.741	14.707	-22.920	1.00	121.24	D
39	984	0	THR	744	8.856	13.595	-22.399	1.00	120.96	D
39	985	N	MET	745	9.549	15.732	-22.654	1.00	120.64	D
39	986	CA	MET	745	10.672	15.622	-21.737	1.00	120.07	D
3	987	СВ	MET	745	11.523	16.881	-21.791	1.00	120.38	D
3	988	CG	MET	745	12.995	16.582	-21.729	1.00	120.61	D
3	989	SD	MET	745	13.895	17.821	-22.630	1.00	121.79	D
3	990	CE	MET	745	14.003	17.040	-24.248	1.00	121.33	D

			CTURE COOF AIN OF GRa							
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	3991	С	MET	745	10.191	15.375	-20.318	1.00	119.16	D
	3992	0	MET	745	10.806	14.616	-19.571	1.00	119.47	D
10	3993	N	SER	746	9.109	16.041	-19.942	1.00	117.72	D
	3994	CA	SER	746	8.517	15.831	-18.627	1.00	116.53	D
	3995	СВ	SER	746	8.322	14.328	-18.392	1.00	116.85	D
15	3996	OG	SER	746	7.499	13.735	-19.384	1.00	117.32	D
	3997	С	SER	746	9.189	16.409	-17.376	1.00	115.35	D
	3998	0	SER	746	8.905	15.921	-16.282	1.00	115.42	D
	3999	N	ILE	747	10.063	17.403	-17.490	1.00	113.39	D
20	4000	CA	ILE	747	10.676	17.964	-16.278	1.00	111.23	D
	4001	СВ	ILE	747	12.094	18.519	-16.557	1.00	111.42	D
	4002	CG2	ILE	747	12.783	18.904	-15.243	1.00	110.85	D
25	4003	CG1	ILE	747	12.935	17.448	-17.254	1.00	111.16	D
	4004	CD1	ILE	747	14.181	17.984	-17.879	1.00	111.76	D
	4005	С	ILE	747	9.747	19.085	-15.788	1.00	109.87	D
	4006	0	ILE	747	9.137	19.766	-16.607	1.00	109.61	D
30	4007	Ν	GLU	748	9.640	19.276	-14.474	1.00	108.51	D
	4008	CA	GLU	748	8.734	20.295	-13.913	1.00	107.39	D
	4009	СВ	GLU	748	7.711	19.600	-12.988	1.00	109.23	D
35	4010	CG	GLU	748	6.248	19.527	-13.495	1.00	111.40	D
	4011	CD	GLU	748	5.994	18.463	-14.571	1.00	112.97	D
	4012	OE1	GLU	748	6.115	17.248	-14.275	1.00	113.35	D
	4013	OE2	GLU	748	5.662	18.848	-15.719	1.00	113.44	D
40	4014	С	GLU	748	9.369	21.484	-13.147	1.00	105.43	D
	4015	0	GLU	748	10.173	21.279	-12.241	1.00	104.77	D
	4016	N	PHE	749	8.982	22.716	-13.505	1.00	103.47	D
45	4017	CA	PHE	749	9.480	23.942	-12.843	1.00	101.74	D
	4018	СВ	PHE	749	9.757	25.045	-13.883	1.00	100.69	D
	4019	CG	PHE	749	10.476	24.565	-15.115	1.00	100.55	D
	4020	CD1	PHE	749	11.843	24.716	-15.251	1.00	99.85	D
50	4021	CD2	PHE	749	9.778	23.929	-16.126	1.00	100.99	D
	4022	CE1	PHE	749	12.479	24.254	-16.373	1.00	100.32	D
	4023	CE2	PHE	749	10.434	23.445	-17.259	1.00	101.43	D
55	4024	CZ	PHE	749	11.784	23.600	-17.388	1.00	100.64	D
	4025	С	PHE	749	8.407	24.441	-11.841	1.00	100.85	D

TABLE 2 (continued)

Γ	ATOMIC	STRUC	TURE COORDI	NATE DA	TA OBTAINE	FROM X-I	RAY DIFFRA PROPIONAT	E AND A T	IF2 FRAGN	MENT
	BINDI	NG DOMA	IN OF GRAIN	COMITEC		Y	z	occ	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	#	X	'			100.94	
-	4026	0	PHE	749	7.214	24.417	-12.153	1.00	99.97	
}	4027	N	PRO	750	8.810	24.926	-10.648	1.00	99.64	
0	4028	CD	PRO	750	10.177	25.299	-10.225	1.00	99.71	
	4029	CA	PRO	750	7.833	25.398	-9.656	1.00	98.99	
	4030	CB	PRO	750	8.692	25.643	-8.426	1.00	98.91	
	4031	CG	PRO	750	9.921	26.205	-9.021	1.00	99.72	
15	4032	С	PRO	750	7.045	26.641	-10.059	1.00	99.72	
	4033	0	PRO	750	7.082	27.064	-11.209	1.00	99.33	D
	4034	N	GLU	751	6.329	27.216	-9.095	1.00	98.80	D
20	4035	CA	GLU	751	5.531	28.418	-9.330	1.00	99.78	D
	4036	СВ	GLU	751	4.831	28.844	-8.036	1.00	100.77	D
	4037	CG	GLU	751	3.619	28.013	-7.714	1.00	101.15	D
_	4038	CD	GLU	751	2.597	28.070	-8.830	1.00	101.13	D
25	4039	OE1	GLU	751	2.945	27.748	-9.985	1.00	101.44	D
	4040	OE2	GLU	751	1.443	28.448	-8.555	1.00	97.74	D
	4041	C	GLU	751	6.397	29.560	-9.814	1.00	96.52	D
30	4042	0	GLU	751	6.224	30.073		1.00	96.53	D
	4043	N	MET	752	7.323	29.954		1.00	95.56	D
	4044	CA	MET	752	8.229	31.031		1.00	95.50	D
	4045	СВ	MET	752	9.331	31.122		1.00	98.76	D
35	4046		MET	752	9.238	32.386			100.33	
	4047		MET	752	8.453	33.847		+	100.33	
	4048		MET	752	9.799	34.664				+
40	4049		MET	752	8.815	30.868			94.50	
	4050		MET	752	8.251	31.40			94.59	+
	4051		LEU	753	9.899	30.113			93.21	
45	4052		LEU	753	10.528	29.94		1 00	90.35	
40	405			753	11.487	28.76				
	405			753	12.819	28.89				
	405	- 		753	12.644	29.37				-
50	1			753	13.457	27.53				
	405			753	9.593	29.74				
	405		LEU	753	9.887	30.18				-
55	100			754	8.487	29.0		-+		-
33	406			754	7.531	28.8	20 -14.14	7 1.00	93.0	, D

			TURE COOF							
5	АТОМ	ATOM TYPE	RESIDUE	#	×	Y	Z	occ	В	ATOM
	4061	СВ	ALA	754	6.399	27.933	-13.633	1.00	92.79	D
	4062	C	ALA	754	6.964	30.111	-14.759	1.00	93.82	D
10	4063	0	ALA	754	6.846	30.200	-15.981	1.00	93.25	D
	4064	Z	GLU	755	6.633	31.101	-13.914	1.00	94.99	D
	4065	CA	GLU	755	6.051	32.400	-14.331	1.00	96.19	D
15	4066	СВ	GLU	755	5.422	33.117	-13.095	1.00	98.50	D
	4067	CG	GLU	755	4.302	34.197	-13.363	1.00	101.75	D
	4068	CD	GLU	755	2.905	33.824	-12.782	1.00	103.89	D
	4069	OE1	GLU	755	2.461	32.671	-12.992	1.00	104.62	D
20	4070	OE2	GLU	755	2.244	34.678	-12.134	1.00	103.97	D
	4071	С	GLU	755	7.081	33.324	-15.006	1.00	95.52	D
	4072	0	GLU	755	6.794	33.972	-16.019	1.00	95.25	D
25	4073	N	ILE	756	8.281	33.373	-14.431	1.00	94.75	D
	4074	CA	ILE	756	9.363	34.199	-14.948	1.00	93.22	D
	4075	СВ	ILE	756	10.523	34.227	-13.969	1.00	92.05	D
	4076	CG2	ILE	756	11.499	35.314	-14.336	1.00	90.95	D
30	4077	CG1	ILE	756	9.994	34.519	-12.577	1.00	91.74	D
	4078	CD1	ILE	756	11.064	34.473	-11.556	1.00	92.95	D
	4079	С	ILE	756	9.834	33.633	-16.273	1.00	93.44	D
35	4080	0	ILE	756	10.051	34.383	-17.224	1.00	93.81	D
	4081	N	ILE	757	10.003	32.315	-16.353	1.00	93.62	D
	4082	CA	ILE	757	10.420	31.750	-17.627	1.00	93.95	D
_ [4083	СВ	ILE	757	10.494	30.209	-17.588	1.00	91.75	D
40	4084	CG2	ILE	757	10.756	29.669	-18.975	1.00	90.90	D
	4085	CG1	ILE	757	11.662	29.777	-16.699	1.00	91.48	D
	4086	CD1	ILE	757	11.660	28.320	-16.315	1.00	91.10	D
45	4087	С	ILE	757	9.367	32.228	-18.623	1.00	95.85	D
Ī	4088	0	ILE	757	9.673	33.038	-19.497	1.00	95.78	D
	4089	N	THR	758	8.127	31.764	-18.448	1.00	98.52	D
[4090	CA	THR	758	6.979	32.135	-19.294	1.00	100.72	D
50	4091	СВ	THR	758	5.662	31.878	-18.565	1.00	100.17	D
	4092	OG1	THR	758	5.839	32.147	-17.172	1.00	99.25	D
Ī	4093	CG2	THR	758	5.203	30.454	-18.766	1.00	100.59	D
55	4094	С	THR	758	6.944	33.598	-19.713	1.00	102.85	D
ļ	4095	0	THR	758	6.645	33.923	-20.865	1.00	103.24	D

TABLE 2 (continued)

					TABLE 2 (C	ontinued)			OM THE LIC	CIAAS
Г	ATOMI	: STRUC	TURE COORI	DINATE DA	TA OBTAINE	FROM X-I	RAY DIFFR	ACTION FH TE AND A T	IOM THE LIC	IENT
	BINDI	NG DOM	TURE COORI AIN OF GRa II	N COMPLE	X WITH FLUT		Z	occ	В	ATOM
5	MOTA	ATOM TYPE	RESIDUE	#	×	Y	2			
1	4006	 N	ASN	759	7.210	34.481	-18.761	1.00	104.57	
}	4096	CA	ASN	759	7.213	35.896	-19.060	1.00	106.54	
10	4097	СВ	ASN	759	7.334	36.708	-17.770	1.00	107.18	D D
,,,	4098	CG	ASN	759	7.717	38.146	-18.032	1.00	108.22	
	4099	OD1	ASN	759	7.420	38.700	-19.092	1.00	108.54	
	4100	ND2	ASN	759	8.376	38.768	-17.058	1.00	108.86	
15	4101	C	ASN	759	8.356	36.251	-20.000	1.00	107.90	D
	4102	0	ASN	759	8.145	36.866	-21.041	1.00	108.22	
	4103	N	GLN	760	9.566	35.838	-19.641	1.00	109.61	D
20	4104	CA	GLN	760	10.746	36.144	-20.438	1.00	111.29	D
	4105	СВ	GLN	760	12.011	35.838	-19.632	1.00	111.83	
	4106	CG	GLN	760	12.186	36.680	-18.385	1.00	113.09	D
	4107	CD	GLN	760	12.179	38.167	-18.681	1.00	113.70	D
25	4108	OE1	GLN	760	12.858	38.636	-19.599	1.00	114.19	D
	4109			760	11.419	38.924	-17.896	1.00	113.41	D
	4110	NE2	GLN	760	10.891	35.473	-21.799	1.00	112.18	D
30	4111		GLN	760	11.477	36.061	-22.708	1.00	111.69	D
00	4112		ILE	761	10.367	34.259	-21.953	1.00	113.58	D
	4113	- 		761	10.535	33.528	-23.207	1.00	115.12	D
	4114			761	9.503	32.391	-23.353	1.00	114.35	D
35	4115	-		761	9.809	31.596	-24.622	1.00	114.19	D
	4116			761	9,552	31.469	9 -22.12	1.00	113.79	D
	4117	+	`	761	10.328	30.17	3 -22.31	2 1.00	113.02	
40	4118			761	10.548	34.36	3 -24.49	5 1.00	116.87	
40	4119			761	11.522	34.31	3 -25.24	8 1.00	116.74	
	412			762		35.14	5 -24.76	9 1.00	118.80	
	412			762		35.42	7 -24.00	1.00	119.13	
45	412					35.93	36 -26.00	7 1.00	120.40	
	412					36.54	47 -26.05	59 1.00	119.76	
	412	 -				36.73	32 -24.6	14 1.00	119.02	
50	412					36.9	94 -26.0	21 1.00	122.03	
50	412		PRO				22 -26.6	73 1.00	122.1	
	41) PRO				73 -25.2	77 1.0	0 123.9	
	41		N LYS				96 -25.1	92 1.0	0 126.1	
5	5 41		A LYS				75 -23.9	95 1.0	0 125.7	4 D
	41	30	CB LYS							

TABLE 2 (continued)

			TURE COOR AIN OF GRα I							
5	ATOM	ATOM TYPE	RESIDUE	#	×	Y	Z	occ	В	ATOM
	4131	CG	LYS	763	11.310	39.457	-22.655	1.00	125.82	D
	4132	CD	LYS	763	11.180	40.457	-21.515	1.00	125.86	D
10	4133	CE	LYS	763	9.724	40.759	-21.192	1.00	125.93	D
	4134	NZ	LYS	763	9.571	41.658	-20.007	1.00	125.34	D
	4135	С	LYS	763	12.860	38.919	-25.132	1.00	127.80	D
15	4136	0	LYS	763	13.655	39.762	-25.567	1.00	127.81	D
	4137	N	TYR	764	13.267	37.765	-24.596	1.00	129.73	D
	4138	CA	TYR	764	14.693	37.418	-24.475	1.00	131.28	D
	4139	СВ	TYR	764	14.902	36.263	-23.481	1.00	132.18	D
20	4140	CG	TYR	764	15.676	36.665	-22.250	1.00	133.74	D
	4141	CD1	TYR	764	15.034	36.789	-21.018	1.00	134.37	D
	4142	CE1	TYR	764	15.704	37.278	-19.901	1.00	134.88	D
25	4143	CD2	TYR	764	17.024	37.026	-22.333	1.00	134.58	D
	4144	CE2	TYR	764	17.707	37.520	-21.218	1.00	135.24	D
	4145	CZ	TYR	764	17.036	37.647	-20.007	1.00	135.32	D
	4146	ОН	TYR	764	17.675	38.185	-18.917	1.00	135.01	D
30	4147	С	TYR	764	15.368	37.017	-25.772	1.00	131.67	D
	4148	0	TYR	764	16.127	37.783	-26.367	1.00	131.64	D
	4149	N	SER	765	15.083	35.780	-26.172	1.00	132.33	D
35	4150	CA	SER	765	15.635	35.159	-27.370	1.00	132.82	D
	4151	СВ	SER	765	14.650	34.105	-27.914	1.00	133.31	D
	4152	OG	SER	765	13.399	34.665	-28.285	1.00	133.84	D
. [4153	С	SER	765	16.065	36.119	-28.483	1.00	132.44	D
40	4154	0	SER	765	17.177	36.004	-29.004	1.00	132.68	D
	4155	N	ASN	766	15.198	37.067	-28.832	1.00	131.53	D
	4156	CA	ASN	766	15.490	38.038	-29.891	1.00	130.64	D
45	4157	СВ	ASN	766	14.310	38.993	-30.082	1.00	131.00	D
	4158	CG	ASN	766	13.031	38.461	-29.492	1.00	131.52	D
	4159	OD1	ASN	766	12.942	38.226	-28.287	1.00	131.69	D
-	4160	ND2	ASN	766	12.023	38.272	-30.334	1.00	132.24	D
50	4161	С	ASN	766	16.739	38.884	-29.629	1.00	129.71	D
Ì	4162	0	ASN	766	17.771	38.718	-30.286	1.00	129.98	D
İ	4163	N	GLY	767	16.615	39.807	-28.673	1.00	128.24	D
55	4164	CA	GLY	767	17.712	40.697	-28.317	1.00	125.71	D
	4165	С	GLY	767	17.254	42.145	-28.215	1.00	123.58	D

TABLE 2 (continued)

Г	ATOMIC	STRUC	TURE COORD	INATE DAT	A OBTAINED	FROM X-F	ROPIONA	TE AND A	TIF2 FRAGM	MENT
	BINDI	NG DOMA	IN OF GRAIN			Y	Z	occ	В	MOTA
T	MOTA	ATOM	RESIDUE	#	×	.				
		TYPE	GLY	767	18.001	43.076	-28.523	1.00	123.67	
1	4166	0	ASN	768	16.013	42.326	-27.761	1.00	121.21	D
	4167	N		768	15.382	43.638	-27.618	1.00	117.93	D
0	4168	CA	ASN	768	13.907	43.490	-28.011	1.00	118.56	D
	4169	CB	ASN	768	13.661	42.254	-28.898	1.00	119.51	D
	4170	CG	ASN	768	12.763	41.449	-28.629	1.00	119.65	D
15	4171	OD1		768	14.463	42.109	-29.953	1.00	119.47	D
	4172	ND2	ASN	768	15.529	44.166	-26.171	1.00	115.24	D
	4173	C	ASN	768	14.715	44.963	-25.687	1.00	115.25	D
	4174	0	ASN	769	16.599	43.698	-25.517	1.00	111.53	D
20	4175	N	ILE	769	16.996	44.010	-24.130	1.00	106.35	D
	4176	CA	ILE	769	17.010	42.700	-23.276	1.00	106.72	D
	4177	СВ	ILE	769	18.139	42.736	-22.253	1.00	105.96	D
25	4178	CG2		769	15.637	42.466	-22.633	1.00	107.12	D
	4179	CG1	ILE	769	15.483	41.092	-21.955	1.00	106.83	D
	4180	CD1		769	18,427	44.586	-24.175	1.00	102.35	D
	4181	C	ILE	769	19,226	44.166	-25.013	1.00	101.64	
30	4182	_+	ILE	770	18.767	45.512	-23.283	1.00	97.33	
	4183		LYS	770	20.114	46.079	-23.31	1.00	92.92	
	4184			770	20.057	47.599	-23.31	1.00	92.48	
35	4185			770	21.417	48.28	-23.32	6 1.00	91.34	
	4186	CG		770	21.191	49.75	1 -23.03	0 1.00	91.61	
	4187			770	22.458	50.54	1 -22.80	8 1.00	91.57	
40	4188			770	22.092	51.94	0 -22.42	20 1.00	90.52	
40	418			770		45.62	7 -22.2	6 1.00	90.16	
	419			770	24.000	46.12	28 -21.09	90 1.00	89.69	
	419	1 C				44.69		79 1.00	86.9	3 D
45	419			771		44.14		75 1.00	83.5	
	419		A LYS					94 1.00	82.6	
	419		B LYS	771				45 1.0	0 82.7	
	419	\longrightarrow	G LYS	77		100		65 1.0	0 83.4	
50	419		D LYS					316 1.0	0 84.3	
	41		E LYS		24.000			522 1.0	0 85.	
	41		VZ LYS			45,		475 1.0	00 81.	53 D
5	5 41		C LYS			15,		429 1.0	00 82.	12 D
	42	200	O LYS	77	24.09					

TABLE 2 (continued)

			TURE COOR							
5	ATOM	ATOM TYPE	RESIDUE	#	×	Y	Z	occ	В	ATOM
	4201	N	LEU	772	24.186	45.699	-20.255	1.00	78.85	D
	4202	CA	LEU	772	25.231	46.689	-20.003	1.00	76.42	D
10	4203	СВ	LEU	772	25.041	47.322	-18.636	1.00	74.60	D
	4204	CG	LEU	772	23.598	47.702	-18.351	1.00	73.45	D
	4205	CD1	LEU	772	23.524	48.369	-17.001	1.00	73.02	D
15	4206	CD2	LEU	772	23.085	48.628	-19.433	1.00	72.99	D
	4207	C	LEU	772	26.570	45.963	-20.024	1.00	75.82	D
	4208	0	LEU	772	26.662	44.825	-19.574	1.00	76.10	D
	4209	N	LEU	773	27.610	46.601	-20.539	1.00	74.99	D
20	4210	CA	LEU	773	28.918	45.951	-20.573	1.00	74.05	D
	4211 1	СВ	LEU	773	29.267	45.552	-22.010	1.00	72.45	D
	4212	CG	LEU	773	28.437	44.416	-22.609	1.00	71.06	D
25	4213	CD1	LEU	773	29.066	43.982	-23.912	1.00	71.54	D
	4214	CD2	LEU	773	28.400	43.230	-21.661	1.00	70.94	D
	4215	С	LEU	773	30.004	46.862	-20.008	1.00	74.26	D
	4216	0	LEU	773	29.873	48.077	-20.072	1.00	73.55	D
30	4217	N	PHE	774	31.059	46.285	-19.429	1.00	75.24	D
	4218	CA	PHE	774	32.150	47.111	-18.900	1.00	76.92	D
	4219	СВ	PHE	774	32.838	46.449	-17.713	1.00	73.36	D
35	4220	CG	PHE	774	32.052	46.531	-16.459	1.00	69.34	D
	4221	CD1	PHE	774	32.009	47.707	-15.728	1.00	67.48	D
	4222	CD2	PHE	774	31.282	45.461	-16.055	1.00	67.60	D
	4223	CE1	PHE	774	31.204	47.812	-14.611	1.00	66.27	D
40	4224	CE2	PHE	774	30.478	45.558	-14.942	1.00	67.12	D
	4225	CZ	PHE	774	30.433	46.734	-14.219	1.00	66.31	D
	4226	С	PHE	774	33.172	47.334	-19.988	1.00	80.21	D
45	4227	0	PHE	774	33.761	48.404	-20.093	1.00	81.43	D
	4228	N	HIS	775	33.377	46.298	-20.792	1.00	83.76	D
	4229	CA	HIS	775	34.315	46.337	-21.900	1.00	87.34	D
50	4230	СВ	HIS	775	35.406	45.269	-21.716	1.00	87.97	D
50	4231	CG	HIS	775	36.023	45.254	-20.355	1.00	89.06	D
	4232	CD2	HIS	775	36.094	44.285	-19.412	1.00	89.60	D
	4233	ND1	ніѕ	775	36.681	46.347	-19.817	1.00	89.65	D
55	4234	CE1	ніѕ	775	37.127	46.045	-18.614	1.00	90.20	D
	4235	NE2	HIS	775	36.781	44.793	-18.343	1.00	90.43	D

TABLE 2 (continued)

			CTURE COOF AIN OF GRα		ATA OBTAIN		X-RAY DIFF			
5	ATOM	ATOM TYPE	RESIDUE	#	×	Y	Z	occ	В	ATOM
	4236	С	HIS	775	33.501	46.008	-23.154	1.00	90.31	D
	4237	0	HIS	775	32.754	45.028	-23.157	1.00	90.35	D
10	4238	N	GLN	776	33.632	46.820	-24.204	1.00	94.37	D
	4239	CA	GLN	776	32.908	46.573	-25.460	1.00	98.31	D
	4240	СВ	GLN	776	32.564	47.907	-26.159	1.00	98.95	D
15	4241	CG	GLN	776	33.657	48.474	-27.093	1.00	101.45	D
	4242	CD	GLN	776	33.554	47.974	-28.542	1.00	102.22	D
	4243	OE1	GLN	776	34.518	48.065	-29.312	1.00	101.71	D
	4244	NE2	GLN	776	32.381	47.461	-28.917	1.00	102.39	D
20	4245	С	GLN	776	33.792	45.706	-26.379	1.00	100.33	D
	4246	0	GLN	776	34.989	45.974	-26.503	1.00	100.20	D
	4247	N	LYS	777	33.216	44.672	-27.002	1.00	102.72	D
25	4248	CA	LYS	777	33.980	43.789	-27.907	1.00	104.94	D
	4249	СВ	LYS	777	33.202	42.488	-28.214	1.00	105.65	D
	4250	CG	LYS	777	33.654	41.700	-29.491	1.00	107.33	D
	4251	CD	LYS	777	35.101	41.162	-29.441	1.00	108.50	D
30	4252	CE	LYS	777	35.521	40.502	-30.770	1.00	108.49	D
	4253	NZ	LYS	777	35.344	41.407	-31.944	1.00	109.12	D
	4254	С	LYS	777	34.319	44.498	-29.219	1.00	105.76	D
35	4255	0	LYS	777	35.517	44.512	-29.589	1.00	105.96	D
	4256	охт	LYS	777	33.383	45.021	-29.864	1.00	106.30	D
	4257	СВ	LYS	740	-1.776	39.602	-15.630	1.00	141.89	E
40	4258	CG	LYS	740	-2.166	39.561	-14.148	1.00	142.72	Е
40	4259	CD	LYS	740	-3.686	39.652	-13.989	1.00	143.70	E
	4260	CE	LYS	740	-4.115	39.873	-12.539	1.00	144.27	E
	4261	NZ	LYS	740	-5.554	40.272	-12.441	1.00	144.10	E
45	4262	С	LYS	740	0.614	38.879	-15.391	1.00	140.04	E
	4263	0	LYS	740	0.331	38.231	-14.381	1.00	139.91	E
	4264	N	LYS	740	-0.112	40.246	-17.356	1.00	141.08	E
50	4265	CA	LYS	740	-0.313	39.979	-15.902	1.00	140.87	E
50	4266	N	GLU	741	1.719	38.664	-16.097	1.00	138.85	E
	4267	CA	GLU	741	2.688	37.662	-15.678	1.00	137.18	E
į	4268	СВ	GLU	741	3.798	37.516	-16.727	1.00	138.20	E
55	4269	CG	GLU	741	4.326	36.108	-16.872	1.00	139.42	E
	4270	CD	GLU	741	3.287	35.187	-17.456	1.00	140.29	E

			TURE COOP AIN OF GRa							-
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	4271	OE1	GLU	741	2.190	35.093	-16.867	1.00	140.93	E
	4272	OE2	GLU	741	3.559	34.562	-18.502	1.00	140.86	E
10	4273	C	GLU	741	3.290	38.208	-14.386	1.00	134.99	E
	4274	0	GLU	741	3.029	39.350	-14.006	1.00	134.69	E
	4275	N	ASN	742	4.084	37.385	-13.708	1.00	132.25	E
15	4276	CA	ASN	742	4.755	37.799	-12.483	1.00	129.12	E
	4277	СВ	ASN	742	5.828	38.841	-12.837	1.00	130.35	E
	4278	CG	ASN	742	6.642	38.448	-14.068	1.00	130.69	E
	4279	OD1	ASN	742	6.467	39.011	-15.150	1.00	130.62	E
20	4280	ND2	ASN	742	7.525	37.466	-13.906	1.00	130.78	Е
	4281	С	ASN	742	3.846	38.329	-11.365	1.00	126.11	E
	4282	0	ASN	742	4.167	39.325	-10.706	1.00	125.74	E
25	4283	N	ALA	743	2.718	37.661	-11.156	1.00	122.24	E
	4284	CA	ALA	743	1.797	38.047	-10.095	1.00	117.75	E
	4285	СВ	ALA	743	0.469	37.301	-10.236	1.00	118.53	E
	4286	С.	ALA	743	2.469	37.695	-8.769	1.00	114.59	E
30	4287	0	ALA	743	2.385	38.455	-7.806	1.00	114.16	E
	4288	N	LEU	744	3.154	36.553	-8.717	1.00	110.51	E
	4289	CA	LEU	744	3.823	36.170	-7.480	1.00	106.08	Е
35	4290	СВ	LEU	744	4.327	34.718	-7.543	1.00	105.35	E
	4291	CG	LEU	744	4.090	33.917	-6.245	1.00	104.62	E
	4292	CD1	LEU	744	4.547	32.469	-6.396	1.00	103.98	E
. [4293	CD2	LEU	744	4.827	34.584	-5.099	1.00	104.60	Е
40	4294	С	LEU	744	4.973	37.134	-7.143	1.00	103.50	E
	4295	0	LEU	744	5.201	37.421	-5.971	1.00	103.23	Ε
	4296	N	LEU	745	5.682	37.650	-8.151	1.00	100.22	Ε
45	4297	CA	LEU	745	6.791	38.587	-7.894	1.00	97.11	E
	4298	СВ	LEU	745	7.598	38.878	-9.172	1.00	95.13	E
[4299	CG	LEU	745	9.114	38.639	-9.295	1.00	92.39	E
50	4300	CD1	LEU	745	9.534	39.232	-10.627	1.00	91.20	E
50	4301	CD2	LEU	745	9.924	39.266	-8.162	1.00	90.98	E
Ī	4302	С	LEU	745	6.295	39.921	-7.340	1.00	95.69	E
Ţ	4303	0	LEU	745	6.781	40.383	-6.305	1.00	95.37	E
55	4304	N	ARG	746	5.340	40.553	-8.026	1.00	94.08	E
[4305	CA	ARG	746	4.847	41.827	-7.528	1.00	91.98	E

TABLE 2 (continued)

			TURE COORD		TABLE 2 (C		RAY DIFFR	ACTION FR	OM THE LIC	GAND
	ATOMI BINDI	C STRUC NG DOMA	TURE COORD	NATE DA	X WITH FLUT	CICASONE			IF2 FRAGN	ATOM
,	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	
}	4000	CB	ARG	746	3.666	42.370	-8.359	1.00	92.78	E
	4306	CG	ARG	746	3.300	43.811	-7.933	1.00	95.34	E
10	4307	CD	ARG	746	2.281	44.580	-8.816	1.00	96.94	E
	4308	NE	ARG	746	2.756	45.145	-10.091	1.00	99.07	E
	4309	CZ	ARG	 746	2.598	44.566	-11.287	1.00	100.49	E
	4310	NH1	ARG	746	1.992	43.386	-11.381	1.00	100.23	E
15	4311	NH2	ARG	746	2.962	45.204	-12.397	1.00	100.52	E
	4312	C	ARG	746	4.439	41.650	-6.072	1.00	90.46	E
	4313		ARG	746	4.742	42.493	-5.237	1.00	89.72	E
20	4314	0	TYR	747	3.785	40.536	-5.754	1.00	89.44	E
20	4315	N	TYR	747	3.362	40.281	-4.379	1.00	88.36	E
	4316	CA	TYR	747	2.558	38.960	-4.304	1.00	86.74	E
	4317	СВ	TYR	747	2.370	38.390	-2.904	1.00	85.09	E
25	4318	CG	TYR	747	1,515	38.992	-1.981	1.00	84.23	E
	4319	CD1		747	1.416	38.512	-0.669	1.00	84.20	E
	4320	CE1	TYR	747	3,110	37.283	-2.487	1.00	84.97	E
30	4321	CD2	TYR	747	3.020	36.801	-1.187	1.00	84.52	E
30	4322	CE2	TYR	747	2.179	37.422	-0.280	1.00	84.47	E
	4323	CZ	TYR	747	2.144	36.982	1.024	1.00	84.78	E
	4324	OH	TYR	747	4.571	40.244	-3.431	1.00	88.64	E
35	4325		TYR	747	4.569	40.907	-2.394	1.00	88.55	E
	4326		TYR	747	5.602	39.494		1.00	89.68	E
	4327		LEU	748	6.813	39.348	-2.999	1.00	89.96	E
40	4328	CA	LEU		7,723	38,291		1.00	88.64	E
40	4329			748	7.123	36.874		1.00	87.96	E
	4330			748	7.795	36.025		1.00	87.83	E
	433					36.25		3 1.00	86.92	E
45	4332			748		40.64		3 1.00	90.99	E
	433			748		40.82		4 1.00	90.21	E
	433			748		41.54	0.75	8 1.00	93.07	7 E
50	433			749		42.81		8 1.00	95.67	7 E
50	433			749		43.36		4 1.00	92.83	3 E
	433			749		42.67			90.5	6 E
	433	8 C		749					88.1	4 E
55	433	+_		749					89.4	3 E
	434	10 CE	2 LEU	749	10.916					

TABLE 2 (continued)

ATOM ATOM TYPE RESIDUE # X Y Z 4341 C LEU 749 7.578 43.886 -2.811 4342 O LEU 749 8.202 44.904 -2.501 4343 N ASP 750 6.330 43.648 -2.404 4344 CA ASP 750 5.579 44.607 -1.587 4345 CB ASP 750 4.152 44.727 -2.135 4346 CG ASP 750 4.053 45.700 -3.301 4347 OD1 ASP 750 4.995 45.742 -4.122 4348 OD2 ASP 750 3.034 46.421 -3.408 4349 C ASP 750 5.542 44.392 -0.063 4351 N LYS 751 5.227 43.182 0.398 4352 CA LYS 751 5.157 42.897	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	B 98.99 99.50 103.16 107.11 106.92 107.42 107.60 110.57 110.50 114.91 119.84 120.51 121.28 122.93 124.03	E E E E E E E E E E E E E E E E E E E
10	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	99.50 103.16 107.11 106.92 107.42 107.42 107.60 110.57 110.50 114.91 119.84 120.51 121.28 122.93	E E E E E E
10	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	103.16 107.11 106.92 107.42 107.60 110.57 110.50 114.91 119.84 120.51 121.28 122.93	E E E E E
4344 CA ASP 750 5.579 44.607 -1.587 4345 CB ASP 750 4.152 44.727 -2.135 4346 CG ASP 750 4.053 45.700 -3.301 4347 OD1 ASP 750 4.995 45.742 -4.122 4348 OD2 ASP 750 3.034 46.421 -3.408 4349 C ASP 750 5.542 44.392 -0.063 4350 O ASP 750 5.804 45.327 0.692 4351 N LYS 751 5.227 43.182 0.398 4352 CA LYS 751 5.157 42.897 1.845 25 4353 CB LYS 751 5.422 40.409 1.165 4354 CG LYS 751 5.442 40.409 1.165 4355 CD LYS 751 5.522 38,865 3.125 30 4356 CE LYS 751 6.425 43.218 2.677 4359 O LYS 751 7.049 44.262 2.478 4361 CA ASP 752 7.964 42.504 4.492 4362 CB ASP 752 9.183 42.759 3.586	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	107.11 106.92 107.42 107.42 107.60 110.57 110.50 114.91 119.84 120.51 121.28 122.93	E E E E
4345 CB ASP 750 4.152 44.727 -2.135 4346 CG ASP 750 4.053 45.700 -3.301 4347 OD1 ASP 750 4.995 45.742 -4.122 4348 OD2 ASP 750 3.034 46.421 -3.408 4349 C ASP 750 5.542 44.392 -0.063 4350 O ASP 750 5.804 45.327 0.692 4351 N LYS 751 5.227 43.182 0.398 4352 CA LYS 751 5.157 42.897 1.845 25 4353 CB LYS 751 4.738 41.430 2.053 4354 CG LYS 751 5.442 40.409 1.165 4355 CD LYS 751 5.130 39.006 1.655 4356 CE LYS 751 5.522	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	106.92 107.42 107.60 110.57 110.50 114.91 119.84 120.51 121.28 122.93	E E E E
15	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	107.42 107.42 107.60 110.57 110.50 114.91 119.84 120.51 121.28 122.93	E E E E
4347 OD1 ASP 750 4.995 45.742 -4.122 4348 OD2 ASP 750 3.034 46.421 -3.408 4349 C ASP 750 5.542 44.392 -0.063 4350 O ASP 750 5.804 45.327 0.692 4351 N LYS 751 5.227 43.182 0.398 4352 CA LYS 751 5.157 42.897 1.845 25 4353 CB LYS 751 4.738 41.430 2.053 4354 CG LYS 751 5.442 40.409 1.165 4355 CD LYS 751 5.130 39.006 1.655 4356 CE LYS 751 5.522 38,865 3.125 4357 NZ LYS 751 5.522 38,865 3.125 4358 C LYS 751 6.425 43.218 2.677 4359 O LYS 751 6.425 43.218 2.677 4359 O LYS 751 7.049 44.262 2.478 4361 CA ASP 752 7.964 42.504 4.492 4362 CB ASP 752 7.964 42.504 4.492	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	107.42 107.60 110.57 110.50 114.91 119.84 120.51 121.28 122.93	E E E E
4348 OD2 ASP 750 3.034 46.421 -3.408 4349 C ASP 750 5.542 44.392 -0.063 4350 O ASP 750 5.804 45.327 0.692 4351 N LYS 751 5.227 43.182 0.398 4352 CA LYS 751 5.157 42.897 1.845 4353 CB LYS 751 4.738 41.430 2.053 4354 CG LYS 751 5.442 40.409 1.165 4355 CD LYS 751 5.130 39.006 1.655 4356 CE LYS 751 5.522 38,865 3.125 4357 NZ LYS 751 4.915 37.676 3.787 4358 C LYS 751 6.425 43.218 2.677 4359 O LYS 751 7.049 44.262 2.478 4361 CA ASP 752 7.964 42.504 4.492 4362 CB ASP 752 9.183 42.759 3.586	1.00 1.00 1.00 1.00 1.00 1.00 1.00	107.60 110.57 110.50 114.91 119.84 120.51 121.28 122.93	E E E
20	1.00 1.00 1.00 1.00 1.00 1.00	110.57 110.50 114.91 119.84 120.51 121.28 122.93	E E E
20	1.00 1.00 1.00 1.00 1.00	110.50 114.91 119.84 120.51 121.28 122.93	E E E
4350 O ASP 750 5.804 45.327 0.692 4351 N LYS 751 5.227 43.182 0.398 4352 CA LYS 751 5.157 42.897 1.845 4353 CB LYS 751 4.738 41.430 2.053 4354 CG LYS 751 5.442 40.409 1.165 4355 CD LYS 751 5.130 39.006 1.655 4356 CE LYS 751 5.522 38,865 3.125 4357 NZ LYS 751 4.915 37.676 3.787 4358 C LYS 751 6.425 43.218 2.677 4359 O LYS 751 7.049 44.262 2.478 35 4360 N ASP 752 6.765 42.351 3.641 4361 CA ASP 752 7.964 42.504 4.492 4362 CB ASP 752 9.183 42.759 3.586	1.00 1.00 1.00 1.00	114.91 119.84 120.51 121.28 122.93	E E E
4352 CA LYS 751 5.157 42.897 1.845 4353 CB LYS 751 4.738 41.430 2.053 4354 CG LYS 751 5.442 40.409 1.165 4355 CD LYS 751 5.130 39.006 1.655 4356 CE LYS 751 5.522 38,865 3.125 4357 NZ LYS 751 4.915 37.676 3.787 4358 C LYS 751 6.425 43.218 2.677 4359 O LYS 751 7.049 44.262 2.478 35 4360 N ASP 752 6.765 42.351 3.641 4361 CA ASP 752 7.964 42.504 4.492 4362 CB ASP 752 9.183 42.759 3.586	1.00 1.00 1.00 1.00	119.84 120.51 121.28 122.93	E E E
25	1.00 1.00 1.00	120.51 121.28 122.93	E E E
4354 CG LYS 751 5.442 40.409 1.165 4355 CD LYS 751 5.130 39.006 1.655 4356 CE LYS 751 5.522 38,865 3.125 4357 NZ LYS 751 4.915 37.676 3.787 4358 C LYS 751 6.425 43.218 2.677 4359 O LYS 751 7.049 44.262 2.478 35 4360 N ASP 752 6.765 42.351 3.641 4361 CA ASP 752 7.964 42.504 4.492 4362 CB ASP 752 9.183 42.759 3.586	1.00	121.28 122.93	E
4355 CD LYS 751 5.130 39.006 1.655 4356 CE LYS 751 5.522 38,865 3.125 4357 NZ LYS 751 4.915 37.676 3.787 4358 C LYS 751 6.425 43.218 2.677 4359 O LYS 751 7.049 44.262 2.478 35 4360 N ASP 752 6.765 42.351 3.641 4361 CA ASP 752 7.964 42.504 4.492 4362 CB ASP 752 9.183 42.759 3.586	1.00	122.93	Е
30	 	-	
30 4357 NZ LYS 751 4.915 37.676 3.787 4358 C LYS 751 6.425 43.218 2.677 4359 O LYS 751 7.049 44.262 2.478 35 4360 N ASP 752 6.765 42.351 3.641 4361 CA ASP 752 7.964 42.504 4.492 4362 CB ASP 752 9.183 42.759 3.586	1.00	124.03	E .
4357 NZ LYS 751 4.915 37.676 3.787 4358 C LYS 751 6.425 43.218 2.677 4359 O LYS 751 7.049 44.262 2.478 4360 N ASP 752 6.765 42.351 3.641 4361 CA ASP 752 7.964 42.504 4.492 4362 CB ASP 752 9.183 42.759 3.586	+		<u> </u>
4359 O LYS 751 7.049 44.262 2.478 4360 N ASP 752 6.765 42.351 3.641 4361 CA ASP 752 7.964 42.504 4.492 4362 CB ASP 752 9.183 42.759 3.586	1.00	124.84	E
35 4360 N ASP 752 6.765 42.351 3.641 4361 CA ASP 752 7.964 42.504 4.492 4362 CB ASP 752 9.183 42.759 3.586	1.00	122.73	E
4361 CA ASP 752 7.964 42.504 4.492 4362 CB ASP 752 9.183 42.759 3.586	1.00	122.86	E
4362 CB ASP 752 9.183 42.759 3.586	1.00	126.13	E
	1.00	129.40	E
4000 00 400 750 40440 40.070 4.004	1.00	130.18	E
4363 CG ASP 752 10.443 42.073 4.084	1.00	131.66	E
40 4364 OD1 ASP 752 10.786 42.244 5.275	1.00	132.08	E
4365 OD2 ASP 752 11.097 41.367 3.281	1.00	132.63	E
4366 C ASP 752 7.960 43.562 5.638	1.00	130.58	E
45 4367 O ASP 752 7.487 44.684 5.459	1.00	131.17	E
4368 N ASP 753 8.496 43.162 6.807	1.00	132.38	Ε
4369 CA ASP 753 8.673 43.970 8.046	1.00	133.53	E
4370 CB ASP 753 7.392 44.726 8.497	1.00	134.59	Е
⁵⁰ 4371 CG ASP 753 7.602 45.573 9.796	1.00	134.88	E
4372 OD1 ASP 753 7.631 45.005 10.915	1.00	135.11	E
4373 OD2 ASP 753 7.740 46.814 9.695	1.00	134.97	E
55 4374 C ASP 753 9.092 43.000 9.154	1.00	133.95	E.
4375 O ASP 753 10.293 42.981 9.496	1.00	134.41	E

TABLE 2 (continued)

Г	ATOM	C STRUC	TURE COORE	INATE DA	TABLE 2 (C		RAY DIFFR	ACTION FR	OM THE LIC	SAND
	BINDI	NG DOMA	IN OF GHA IN	COMPLE	X WITH FLUT	TICASONE Y	PROPIONA	OCC OCC	B	ATOM
5	ATOM	ATOM TYPE	RESIDUE	#				4.00	134.72	
}	4376	ОХТ	ASP	753	8.223	42.246	9.644	1.00	68.41	
	4377	C1	FLU	1	31.469	6.647	9.774	1.00	66.97	$\frac{c}{c}$
10	4378	C2	FLU	1	31.819	7.274	8.637	1.00	68.13	
ļ	4379	C3	FLU	1	33.096	8.036	8.648	1.00	67.54	c
	4380	C4	FLU	1	33.846	8.156	9.949	1.00	68.42	c
	4381	C5	FLU	1	33.446	7.519	11.039	1.00	69.88	
15	4382	C6	FLU	1	34.232	7.698	12.303	1.00		
	4383	F61	FLU	1	35.211	8.643	12.190	1.00	71.79	
	4384	C7	FLU	1	33.332	8.128	13.460	1.00	70.88	
20	4385	C8	FLU	1	32.025	7.330	13.516	1.00	72.02	
	4386	C9	FLU	1	31.297	7.119	12.193	1.00	71.23	
	4387	C10	FLU	1	32.213	6.638	11.065	1.00	69.64	
	4388	C11	FLU	1	29.932	6.437	12.283	1.00	71.39	
25	4389	C12	FLU	1	29.105	6.683	13.539	1.00	72.71	C
	4390	C13	FLU	1	29.890	6.661	14.857	1.00	73.76	C
	4391	C14	FLU	1	31.136	7.539	14.738	1.00	72.68	C
30	4392	C15	FLU	1	31.614	7.926	16.141	1.00	74.16	C
	4393	C16	FLU	1	30.383	7.643	16.996	1.00	74.79	c
	4394	C17	FLU	1	29.218	7.330	16.053	1.00	76.56	- C
25	4395	C18	FLU	1	30.305	5.197	15.044	1.00	73.36	C
35	4396	C19	FLU	1	32.695	5.192	11.181	1.00	69.59	C
	4397		FLU	1	28.267	6.341	16.712	+	77.91	- c
	4398			1	26.498	6.507	16.475		78.08	
40	4399			1	25.978	4.792	16.637		79.64	C
	4400			1	26.415	4.104	15.543		82.24	C
	4401			1	30.250	8.586			74.40	
45	4402	_+		1	30.899	8.37	5 11.854		74.42	C
43	4403			1	33.524	8.56			70.89	
	4404			1	30.058	5.02	9 12.150		70.24	+
	440		- ,,	1	28.413	8.45			79.76	
50	440			1	28.685	5.41	6 17.40		79.85	
	440			1	28.738	9.78	1 15.73			
	440			1	27.622	10.75	15.41			
55				1	27.540	10.86	13.88			
95	441			1	29.829	10.28	16.00	3 1.00	82.80) C

	1		TURE COOF AIN OF GRa							
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	4411	C1	FLU	2	18.731	25.721	-9.807	1.00	66.81	F
	4412	C2	FLU	2	19.386	25.696	-8.652	1.00	65.83	F
10	4413	СЗ	FLU	2	20.603	26.567	-8.540	1.00	66.00	F
	4414	C4	FLU	2	21.052	27.321	-9.758	1.00	65.97	F
	4415	C5	FLU	2	20.346	27.301	-10.888	1.00	66.75	F
15	4416	C6	FLU	2	20.870	28.079	-12.060	1.00	67.70	F
	4417	F61	FLU	2	22.113	28.603	-11.869	1.00	67.61	F
	4418	C7	FLU	2	20.975	27.192	-13.299	1.00	67.74	F
	4419	C8	FLU	2	19.740	26.304	-13.471	1.00	70.03	F
20	4420	C9	FLU	2	19.217	25.580	-12.225	1.00	69.01	F
	4421	C10	FLU	2	19.073	26.521	-11.026	1.00	67.85	F
	4422	C11	FLU	2	18.071	24.593	-12.461	1.00	69.61	F
25	4423	C12	FLU	2	18.023	23.880	-13.813	1.00	72.06	F
	4424	C13	FLU	2	18.345	24.746	-15.029	1.00	73.82	F
	4425	C14	FLU	2	19.647	25.492	-14.762	1.00	72.07	F
	4426	C15	FLU	2	20.287	25.940	-16.075	1.00	73.54	F
30	4427	C16	FLU	2	19.659	24.961	-17.062	1.00	74.63	F
	4428	C17	FLU	2	18.758	23.991	-16.287	1.00	77.21	F
	4429	C18	FLU	2	17.155	25.681	-15.219	1.00	72.30	F
35	4430	C19	FLU	2	17.921	27.513	-11.113	1.00	68.89	F
	4431	C20	FLU	2	17.540	23.530	-17.071	1.00	79.04	F
	4432	S21	FLU	2	16.760	21.975	-16.623	1.00	81.55	F
	4433	C21	FLU	2	15.234	22.064	-17.575	1.00	83.80	F
40	4434	F21	FLU	2	14.313	22.715	-16.813	1.00	86.86	F
	4435	C22	FLU	2	20.799	24.580	-17.998	1.00	74.95	F
	4436	F1	FLU	2	20.223	24.708	-11.913	1.00	70.32	F
45	4437	01	FLU	2	21.233	26.659	-7.481	1.00	68.73	F
	4438	02	FLU	2	16.816	25.254	-12.348	1.00	69.31	F
	4439	03	FLU	2	19.455	22.843	-15.815	1.00	80.25	F
50	4440	04	FLU	2	17.083	24.202	-17.994	1.00	79.76	F
50	4441	С	FLU	2	19.977	21.889	-16.658	1.00	82.09	F
	4442	СС	FLU	2	20.497	20.676	-15.905	1.00	81.78	F
	4443	ССЗ	FLU	2	21.989	20.751	-15.572	1.00	78.23	F
55	4444	0	FLU	2	20.024	21.982	-17.881	1.00	84.06	F
	4445	0	нон		19.523	33.396	-3.571	1.00	76.62	w

l	BINDI	NG DOMA	TURE COORD AIN OF GRα IN	COMPLEX	WITH FLUT			occ	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	000		
-	4446	0	нон	2	42.941	37.375	-17.594	1.00	73.82	-W
}	4446	0	НОН	3	-5.577	41.115	-21.499	1.00	86.78	
,	4447		нон	4	38.453	47.403	-23.099	1.00	91.58	
	4448		нон	5	26.829	53.228	-14.715	1.00	76.19	
	4450		НОН	6	27.841	43.647	-16.662	1.00	83.67	
	4450	0	НОН	7	37.308	4.182	2.628	1.00	82.13	
5	<u> </u>	0	нон	8	51.563	23.152	18.316	1.00	77.47	
	4452 4453	0	НОН	9	14.159	62.331	-10.476	1.00	72.93	
		0	НОН	10	41.691	4.638	29.350	1.00	81.82	
20	4454	0	НОН	11	51.782	5.887	14.391	1.00	69.86	
	4455	0	нон	12	28.889	-4.501	5.566	1.00	74.77	W _
	4450	0	нон	13	49.515	19.573	17.146	1.00	84.85	
	4458	0	HOH	14	3.901	51.708	-24.615	1.00	75.63	
25	4459	10	НОН	15	44.526	-5.219	33.428	1.00	92.56	
	4460	0	нон	16	49.031	2.748	26.331	1.00	85.58	W
	4460	-	НОН	17	69.550	9.656	-15.186	1.00	95.60	W
30	4462	10	HOH	18	37.583	46.290	-30.177	1.00	94.72	
	4463	10	нон	19	44.712	-10.424	23.759	1.00	93.68	W
	4464	0	нон	20	10.095	47.678	8.481	1.00	94.91	W W
	4465	+ + + + + + + + + + + + + + + + + + + +	НОН	21	23.412	55.862	-18.634	1.00	64.40	W W
35	4466	+	HOH	22	45.467	40.765	-18.463		82.28	W
	4467		НОН	23	63.473	2.606	6.965	1.00	78.36	₩ w
	4468		нон	24	60.128	12.787	22.992		78.64	W
40	4469		НОН	25	43.814	-4.792	2 -2.342	1.00	73.85	+ w
	<u> </u>		НОН	26	35.802	58.962	2 -5.624		86.33	
	4470			27	18.584	43.65	5 -32.292		110.47	T W
	4472			28	1.260	31.71	8 -15.461		94.95	1 w
45	447			29	39.707	25.90	3 12.225		81.11	\
	447			30	8.864	39.63	7 -26.90		102.41	
	447			31	25.220	8.57				
50	447			32	44.012	3.51				
	447			33	61.617	5.97				
	447			34	33.361	11.23				
-				35	48.747	6.56	63 26.11			
55	448			36	35.557	39.6	74 3.25	56 1.00	84.29	<u> </u>

			TURE COOF AIN OF GRa							
5	АТОМ	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
	4481	0	НОН	37	43.568	3.880	17.239	1.00	80.95	W
	4482	0	НОН	38	-2.757	39.376	-25.950	1.00	94.87	w
10	4483	0	нон	39	37.467	5.537	29.129	1.00	102.58	w
	4484	0	нон	40	18.443	9.340	-17.496	1.00	75.91	w
	4485	0	нон	41	58.946	27.891	16.135	1.00	117.13	w
15	4486	0	НОН	42	29.763	47.759	-26.838	1.00	87.96	w
	4487	0	нон	43	38.372	-23.387	18.058	1.00	88.20	w
	4488	0	нон	44	2.160	53.587	-26.952	1.00	103.43	w
	4489	0	нон	45	15.637	33.354	6.623	1.00	78.76	w
20	4490	0	нон	46	36.791	8.067	1.836	1.00	92.22	w
	4491	0	нон	47	41.420	-19.727	12.465	1.00	90.65	w
	4492	0	нон	48	35.606	42.694	-34.099	1.00	92.07	w
25	4493	0	нон	49	9.972	40.686	-28.976	1.00	90.64	w
	4494	0	нон	50	56.197	25.170	9.346	1.00	102.45	w
	4495	0	нон	51	45.027	-14.654	-8.801	1.00	73.69	w
	4496	0	нон	52	1.523	47.124	-14.313	1.00	79.60	W
30	4497	0	нон	53	48.094	20.357	-1.285	1.00	63.38	W
	4498	0	нон	54	-3.646	36.748	-23.378	1.00	89.36	W
	4499	0	нон	55	54.686	-16.296	13.451	1.00	93.02	W
35	4500	0	нон	56	18.176	19.988	-29.385	1.00	85.25	W
	4501	0	нон	57	18.017	7.401	19.131	1.00	89.90	W
	4502	0	нон	58	46.405	10.360	-8.409	1.00	79.17	W
	4503	0	нон	59	60.377	-2.468	19.274	1.00	93.48	W
40	4504	0	нон	60	-2.437	45.083	-20.632	1.00	102.27	W
	4505	0	нон	61	38.901	33.047	-19.920	1.00	80.62	W
	4506	0	нон	62	28.293	32.129	-28.814	1.00	87.71	W
45	4507	0	нон	63	44.732	10.741	-4.492	1.00	81.65	W
	4508	0	нон	64	24.682	4.218	-1.857	1.00	76.04	W
	4509	0	НОН	65	31.637	0.342	25.661	1.00	82.29	W
50	4510	0	нон	66	4.471	24.618	-9.189	1.00	90.31	W
50	4511 1	0	нон	67	30.941	3.201	26.651	1.00	103.40	W
	4512	0	нон	68	39.603	1.672	28.491	1.00	113.23	W
	4513	0	нон	69	30.027	53.782	2.347	1.00	86.93	W
5 5	4514	0	нон	70	24.112	8.345	20.698	1.00	83.64	W
	4515	0	нон	71	11.238	11.421	-10.129	1.00	104.98	W

TABLE 2 (continued)

	_			COORDI				ntinued) FROM X	-RAY	DIFFRA	CTION	FROM	THE LIG	AND
	ATOMIC	STRUC	TURE	COORDING GRAIN	OMPLE)	X WITH	1 FLUTI	CASONE	PRC	PIONAT	E AND	4 HF2	PRAGIN	ATOM
5	ATOM	ATOM	RES	SIDUE	#	Х		Y		Z	000			
		TYPE			72	10.91	9	8.389	-11	1.074	1.00	10	08.91	-W
Γ	4516	0	—	IOH	73	37.38		35.007	1	1.398	1.00		50.56	
	4517	0		HOH	74	44.3	+	42.288	-2	2.956	1.00		99.96	
10	4518	0	 	HOH		9.5		39.664		1.611	1.00	<u> </u>	03.96	
	4519	0		HOH	76	22.6		31.229	-	1.881	1.00		85.23	
	4520	0	4	HOH	-77	ļ	72	47.026	1	0.208	1.00	1	05.31	
15	4521	0		HOH	78	50.0	24	16.208	1	-4.476	1.00		84.94	
	4522	0		НОН	79	48.9	969	-19.537	1	13.191	1.00		101.64	
	4523	0		HOH	80	9.8	808	51.313		-0.626	1.00		83.97	W
	4524	0		HOH	 81	4	763	14.751		31.604	1.00		84.36	
20	4525	0		HOH	82	+	922	-4.343	3	19.998	1.00		97.27	W
	4526	-		HOH	83	53.	.567	-16.970	0	16.934	1.00		74.06	ļ
	4527	0		HOH	84	4	.029	10.21	7	-3.169	1.00	<u> </u>	82.95	W W
25	4528	- 0		HOH	85	50	.109	40.90	4	-11.762	1.0	0	102.45	W
	4529	0		HOH	86		.821	49.89	18	-13.245	1.0	0	99.91	+ W
	4530	_+		HOH	87	21	.200	13.27	79	0.465	1.0	0	79.27	+ W
	4531			HOH	88	63	3.358	-1.15	53	3.412	1.0	00	102.97	- W
30	4532			HOH	89	- 1	8,070	25.74	41	14.704	1.0	00	86.42	100
	4533	9		HOH	90		0.672	12.7	08	31.162	1.0	00	112.67	
	4534			HOH	91		3.164	-6.1	41	17.266	3 1.	00	110.15	1 101
35	453	5 0	-	HOH	92		0.846	49.9	63	-21.798	3 1.	00	90.71	
	453			HOH	93	-	34,418	24.1	60	-18.82	1 1.	.00	87.02	- \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	453			HOH	94		18.611 1	25.8	370	-27.60	3 1	.00	112.94	
40	453		2	HOH	95		5.242		331	1.31	4 1	.00	78.2	
40	453		0	HOH	96		43.848	-9.	310	18.97	9 1	.00	109.5	
	454	10	0	HOH	97		22.575	6.	419	-8.20)4 1	.00	80.7	
	454	41	0	HOH	98		44.607	25.	.465	2.53	34	.00	86.7	
45	45	42	0	HOH	99	 +	25.294	0	.805	26.89	95	1.00	79.1	
	45	43	0	HOH	10		15.873	13	.445	16.0		1.00	65.3	
	45	44	0	HOH	10	+	46.669		.925	-3.4	39	1.00	63.9	
-		45	0	HOH		02	10.476		7.087	-17.6	94	1.00	73.	
50	45	546	0	HOH	-+-	03	32.866		9.274	-27.2	212	1.00	95.	
	4!	547	0	HOH		04	42.351		1.786	13.3	383	1.00	84.	
	4	548	0	HOH		05	-0.138		8.199	-23.	756	1.00	105	
5	55 4	549	0	HOH		06	28.47		9.343	3 -28.	838	1.00	93	.72
	4	550	0	HOF	<u>'</u> '		L							·

	1		TURE COOP AIN OF GRa							
5	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
	4551	0	НОН	107	26.576	57.319	-16.982	1.00	115.17	w
	4552	0	НОН	108	65.453	11.244	1.860	1.00	100.82	w
10	4553	0	НОН	109	-0.708	38.981	-21.728	1.00	89.17	w
	4554	0	НОН	110	27.824	-8.474	20.771	1.00	86.00	W
	4555	0	НОН	111 1	39.931	48.171	-29.933	1.00	125.52	w
15	4556	0	НОН	112	45.275	-19.198	12.656	1.00	101.55	w
	4557	0	нон	113	45.279	29.204	13.170	1.00	81.25	w
	4558	0	нон	114	39.604	-9.905	-10.328	1.00	73.44	w
	4559	0	нон	115	64.611	12.168	-0.278	1.00	95.59	w
20	4560	0	нон	116	68.609	24.621	6.796	1.00	99.37	W
	4561	0	нон	117	25.054	-7.146	20.234	1.00	85.14	w
	4562	0	нон	118	46.697	4.148	27.896	1.00	105.02	W
25	4563	0	НОН	119	22.193	26.077	-24.741	1.00	69.48	w
	4564	0	нон	120	26.353	57.873	-19.525	1.00	108.32	w
	4565	0	нон	121	8.026	55.457	-17.860	1.00	98.34	w
	4566	0	нон	122	12.559	11.828	-24.035	1.00	93.10	W
30	4567	0	нон	123	-4.915	40.336	-23.651	1.00	96.08	W
	4568	0	нон	124	7.424	56.806	-15.154	1.00	95.41	W
	4569	0	нон	125	9.243	9.680	-21.618	1.00	88.75	W
35	4570	0	нон	126	41.604	39.684	-21.569	1.00	113.19	W
	4571	0	нон	127	39.225	-16.888	3.197	1.00	66.34	W
	4572	0	нон	128	40.747	40.837	-23.085	1.00	85.74	W
	4573	0	нон	129	36.354	54.080	16.892	1.00	107.37	W
40	4574	0	нон	130	40.021	-4.808	33.204	1.00	91.23	W
	4575	0	нон	131	55.071	24.231	-2.554	1.00	70.80	W
	4576	0	нон	132	46.616	48.721	-2.372	1.00	83.01	w
45	4577	0	нон	133	26.663	54.965	-17.649	1.00	94.09	W
	4578	0	нон	134	60.447	24.164	-2.252	1.00	108.34	w
	4579	0	нон	135	37.786	54.011	-0.139	1.00	112.49	W
50	4580	0	нон	136	39.669	27.027	16.006	1.00	113.82	W
50	4581	0	нон	137	54.615	6.585	26.415	1.00	97.63	W
	4582	0	нон	138	38.455	26.713	14.349	1.00	110.00	w
	4583	0	нон	139	25.536	31.838	-27.978	1.00	118.35	w
55	4584	0	нон	140	43.859	28.725	11.124	1.00	88.60	W
	4585	0	нон	141	39.097	47.972	-32.369	1.00	104.31	w

TABLE 2 (continued)

					TABLE 2	(continued)				ICANID
[ATOMI	C STRUC	TURE COORI AIN OF GRa II	DINATE DA	TA OBTAIN	ED FROM X-	RAY DIFFR	ACTION FF ITE AND A	TIF2 FRAG	MENT
	BIND	NG DOM	AIN OF GRA	N COMI EL	X	Y	Z	occ	В	ATOM
5	ATOM	ATOM	RESIDUE	#						
		TYPE		142	25.807	33.585	-30.771	1.00	99.66	W
	4586	0_	НОН			53.006	-1.353	1.00	94.50	W
	4587	0	нон	143	39.247		-5.094	1.00	92.07	W
10	4588	0	нон	144	45.655	-13.890			82.57	W
			HOH	145	34.471	-14.556	13.467	1.00	02.57	I
	4589	0	I FION		<u> </u>					

		IC COORDINATE		D/TIEO/	TABLE 3	SED IN MOLI	CULAR RE	EPLACE	MENT
	ATOM		S FOR THE C	3H/11F2/	X	Y	Z	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	#	60.207	9.806	35.497	1.00	60.77
	1	СВ	GLN	527	60.501	11.318	35.564	1.00	60.74
	2	CG	GLN	527	60.595	11.993	34.172	1.00	63.52
	3	CD	GLN	527	60.493	13.224	34.058	1.00	61.80
	4	OE1	GLN	527		11.187	33.121	1.00	61.21
	5	NE2	GLN	527	60.794	8.590	36.647	1.00	62.83
	6	С	GLN	527	62.073	8,191	36.724	1.00	59.67
	7	0	GLN	527	63.240	7.618	34.618	1.00	58.91
	8	N	GLN	527	61.009	8.890	35.289	1.00	62.13
	9	CA	GLN	527	61.426	8.776	37.716	1.00	62.73
	10	N	LEU	528	61.308	8.538	39.064	1.00	65.02
	11	CA	LEU	528	61.816		39.733	1.00	62.65
i	12	СВ	LEU	528	62.105	9.889	38.813	1.00	59.23
	13	CG	LEU	528	62.864	10.872	38.675	1.00	63.52
	14	CD1	LEU	528	62.071	12.198	39.356	1.00	60.04
	15	CD2	LEU	528	64.283	11.105	39.888	1.00	59.38
0	16	С	LEU	528	60.823	7.690	39.527	1.00	63.35
	17	0	LEU	528	60.586		40.960	+	60.40
	18	N	THR	529	60.247		41.835		60.79
15	19	CA	THR	529	59.282		41.847		63.6
	20	СВ	THR	529	57.841		42.382	100	1
	21	OG1	THR	529	57.918				
	22	CG2	THR	529	56.867		42.706	-	
50	23	С	THR	52	9 59.13				
	24	0	THR	52	9 58.45		40.398		
	25	N	PRO	53	0 59.74		42.160		
55	26	CD	PRO	53	60.11		43.56		
33	27	CA	PRO	53	30 59.75	3.660	41.92	8 1.00	<u></u>

	ATOM	IIC COORDINATI	ES FOR THE (E 3 (continued 2/DEX MODEL I		LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
5	28	СВ	PRO	530	60.388	3.109	43.213	1.00	58.06
	29	CG	PRO	530	59.914	4.071	44.249	1.00	64.31
	30	С	PRO	530	58.453	2.927	41.537	1.00	63.39
10	31	0	PRO	530	57.400	3.542	41.363	1.00	59.17
	32	N	THR	531	58.554	1.603	41.419	1.00	62.27
	33	CA	THR	531	57.455	0.742	40.997	1.00	61.68
	34	СВ	THR	531	57.989	-0.404	40.058	1.00	60.38
15	35	OG1	THR	531	57.209	-0.461	38.853	1.00	60.25
	36	CG2	THR	531	57.937	-1.760	40.757	1.00	60.67
	37	С	THR	531	56.629	0.125	42.117	1.00	60.82
20	38	0	THR	531	55.533	-0.361	41.864	1.00	62.20
	39	N	LEU	532	57.122	0.128	43.348	1.00	60.85
	40	CA	LEU	532	56.324	-0.465	44.418	1.00	60.11
05	41	СВ	LEU	532	57.183	-0.775	45.637	1.00	64.22
25	42	CG	LEU	532	56.388	-1.514	46.704	1.00	63.74
	43	CD1	LEU	532	55.677	-2.694	46.082	1.00	62.66
	44	CD2	LEU	532	57.317	-1.968	47.806	1.00	63.22
30	45	C	LEU	532	55.143	0.422	44.817	1.00	62.08
	46	0	LEU	532	54.047	-0.075	45.061	1.00	61.27
	47	N	VAL	533	55.366	1.733	44.883	1.00	59.27
35	48	CA	VAL	533	54.297	2.677	45.222	1.00	62.90
33	49	СВ	VAL	533	54.858	4.050	45.638	1.00	64.91
	50	CG1	VAL	533	55.572	4.693	44.465	1.00	60.86
	51	CG2	VAL	533	53.746	4.941	46.102	1.00	61.00
40	52	С	VAL	533	53.422	2.874	43.979	1.00	62.21
	53	0	VAL	533	52.281	3.321	44.065	1.00	61.72
	54	N	SER	534	53.981	2.553	42.817	1.00	60.92
45	55	CA	SER	534	53.249	2.665	41.564	1.00	61.24
	56	СВ	SER	534	54.196	2.474	40.386	1.00	61.92
	57	OG	SER	534	53.468	2.355	39.183	1.00	61.38
	58	С	SER	534	52.209	1.557	41.566	1.00	64.31
50	59	0	SER	534	51.105	1.691	41.027	1.00	62.62
	60	N	LEU	535	52.581	0.452	42.193	1.00	61.91
	61	CA	LEU	535	51.697	-0.684	42.288	1.00	60.97
55	62	СВ	LEU	535	52.479	-1.922	42.730	1.00	66.65
	63	CG	LEU	535	51.949	-3.225	42.131	1.00	63.58
	64	CD1	LEU	535	52.657	-3.505	40.827	1.00	62.14

TABLE 3 (continued)

						TAE	3LE 3	(con	tinued)			V ECI	II AR F	EPL/	CE	MENT		
			ORDINATES	FOR	THE GF	₹/T1	F2/DE	X MC	DEL US	SED	IN MC	T	7	В	\top	ATOM	1	
		VIC CO	OHDINATE	RESI	DUE	#	T	Х					3.090	1.00	5	61.	95	
	ATOM		M TYPE	LEL		53	5	52	2.175		.364		3.285	1.0	-+	59.	91	
5	65		CD2	LEI		53	5	50	0.588).353			1.0	-+	63	.02	
	66		<u>C</u>	LE		53	5	4	9.432	-(0.684		13.060	1.0		62	.58	
Ī	67		0	LE		53	36	5	0.933		0.315		44.381	1.0	+	59).17	
10	68		N	LE		53	36	4	9.932	L_	0.683		45.376	┼	00	6	1.74	
	69		CA		.U		36		50.583		1.413		46.541	┼	00	5	8.87	
	70		СВ				36		51.501		0.625		47.460		.00	5	9.54	
	71		CG	l	EU 	┼-	36		51.953	T	1.545	_	48.553	+-			3.64	
15	72		CD1		EU	+-	536		50.781	1	-0.575	·	48.045	+-	.00		33.31	
	73		CD2		.EU	+-			48.821	T	1.569		44.812		.00	1	61.67	
	74		С		.EU	-	536		47.672	: 1	1.489	9	45.25				59.21	
	75	-	0		_EU	+	536		49.171	-+-	2.41	5	43.84	5	1.00			
20	76	-	N		GLU 		537		48.23	_	3.34	3	43.21	3	1.00		59.76	l
	77		CA		GLU	\downarrow	537		48.98	-+	4.29	92	42.30	2	1.00		59.81	
	78		СВ		GLU	_	537	 	48.81	+	5.74		42.6	25	1.00)	60.10	
25	79		CG		GLU		537		48.90	-+	6.6	16	41.3	85	1.00	0	64.34	1
	 		CD.		GLU		537				6.8		40.7	07	1.0	0	57.41	1
	80		OE1		GLU		537		47.80		ļ	91	41.0	84	1.0	0	62.84	4
	81		OE2	-	GLU		537		50.0		ļ	598	42.	371	1.0	00	61.66	4
30	82		C		GLU		537	<u>'</u>	47.1			101	42.	433	1.0	00	60.28	
	83				GLU		537		45.9			717	41.	564	1.	00	60.48	
	84		N		VAL		53	8	47.	536 	1			674	1.	00	63.41	
35	85		CA		VAL		53	8		606		.045		.442	1	.00	64.15	5
55	86				VAL		53	88		325		.448		.903	+1	.00	60.2	9
	8	7	CB		VAL		53	38	48	.334		.444	-	797	+-	.00	63.8	8
	8	8	CG1		VAL		5	38	47	.973).883		1.311	+-	1.00	57.9	9
40	8	19	CG2		VAL		5	38	45	5.76		0.046		0.683		1.00	58.7	71
	9	9 0	C		VAL		- 5	38	44	1.82		0.530 		2.535		1.00	61.	14
	[9	91	0		ILE		-+:	539	4	6.09	4 -	0.454			-	1.00	60.	23
		92	N		ILE		-+:	539	4	5.28	32	-1.484 		3.18	-+	1.00	65	.32
45	Γ	93	CA					539	4	6.14	41	-2.49		14.01		1.00	61	.32
	T	94	СВ		ILE			539	-	17.2	43	-3.06		43.14	+			3.80
		95	CG	2 	ILE			539		46.7	75	-1.83	33	45.22		1.00	L).85
50	, †	96	CG	1	ILE			539		47.3	356	-2.83	33	46.20		1.00		1.40
	ţ	97	CD	1	ILF			539		44.2	259	-0.8	11	44.0		1.00		3.49
		98	С		ILI					43.		-1.4	47	44.5	73	1.00	+	3.43
		99	0		IL.			539	+		451	0.4	89	44.3	310	1.00		30.76
	55	100	N			LU		540	+		.584	1.3	307	45.1	153	1.00		
		101	C	A	G	LU		540										

TABLE 3 (continued)

	ATOM	IIC COORDINATE	S FOR THE	GR/TIF2	DEX MODEL	JSED IN MO	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	102	СВ	GLU	540	44.109	2.753	45.173	1.00	58.26
	103	CG	GLU	540	43.466	3.684	46.191	1.00	61.15
	104	CD	GLU	540	43.598	3.183	47.619	1.00	61.95
10	105	OE1	GLU	540	44.656	2.591	47.950	1.00	59.71
	106	OE2	GLU	540	42.649	3.397	48.410	1.00	62.96
	107	O	GLU	540	42.169	1.264	44.585	1.00	61.78
	108	0	GLU	540	41.928	1.709	43.459	1.00	61.36
15	109	N	PRO	541	41.214	0.713	45.352	1.00	63.77
	110	CD	PRO	541	41.365	0.053	46.659	1.00	58.98
	111	CA	PRO	541	39.830	0.632	44.876	1.00	60.14
20	112	СВ	PRO	541	39.131	-0.149	45.988	1.00	59.62
	113	CG	PRO	541	39.978	0.122	47.195	1.00	60.56
	114	С	PRO	541	39.180	1.991	44.592	1.00	62.36
0E	115	0	PRO	541	39.455	2.982	45.283	1.00	59.45
25	116	N	GLU	542	38.332	2.039	43.563	1.00	60.43
	117	CA	GLU	542	37.653	3.279	43.198	1.00	62.04
	118	СВ	GLU	542	37.091	3.201	41.770	1.00	62.84
30	119	CG	GLU	542	36.130	2.050	41.511	1.00	63.24
	120	CD	GLU	542	35.745	1.911	40.031	1.00	63.39
	121	OE1	GLU	542	36.622	2.095	39.153	1.00	60.50
35	122	OE2	GLU	542	34.568	1.599	39.743	1.00	59.31
33	123	С	GLU	542	36.548	3.515	44.208	1.00	63.11
	124	0	GLU	542	35.941	2.564	44.697	1.00	59.70
	125	N	VAL	543	36.304	4.783	44.528	1.00	61.53
40	126	CA	VAL	543	35.299	5.148	45.518	1.00	63.47
	127	СВ	VAL	543	35.334	6.661	45.801	1.00	62.60
	128	CG1	VAL	543	34.467	6.984	46.987	1.00	60.93
45	129	CG2	VAL	543	36.762	7.103	46.064	1.00	59.59
40	130	С	VAL	543	33.886	4.748	45.126	1.00	61.39
	131	0	VAL	543	33.495	4.877	43.965	1.00	60.79
	132	N	LEU	544	33.128	4.267	46.109	1.00	62.56
50	133	CA	LEU	544	31.759	3.836	45.882	1.00	60.63
	134	СВ	LEU	544	31.501	2.486	46.547	1.00	63.18
	135	CG	LEU	544	32.666	1.512	46.682	1.00	61.92
55	136	CD1	LEU	544	33.702	2.114	47.638	1.00	62.67
	137	CD2	LEU	544	32.163	0.172	47.225	1.00	61.02
	138	С	LEU	544	30.754	4.844	46.423	1.00	58.48

TABLE 3 (continued)

		C COORDINATE	o con the c	D/TIE	2/DFX	continued) MODEL U	SED II	N MOLE	CULAR R	EPL/	CEME	NT
Γ	ATOM		S FOR THE	#		X		,	Z	В	A	
	MOTA	ATOM TYPE	RESIDUE	544	-	31.097	5.7	15	47.225	1.00		59.01
	139	0	LEU	545	+	29.508	4.6	98	45.974	1.0	0	60.35
	140	N	TYR	545	+	28.394	5.5	559	46.356	1.0	0	58.86
	141	CA	TYR	545		27.616	5.9	977	45.105	1.0	0	59.62
, [142	СВ	TYR	545		28.421	6.	799	44.122	1.0	10	60.54
Ī	143	CG	TYR	+		29.815	6.	803	44.162	1.0	00	59.00
	144	CD1	TYR	545		30.561	7.	563	43.270	1.0	00	61.22
	145	CE1	TYR	545		27.791	7	.579	43.153	1.0	00	63.95
5	146	CD2	TYR			28,534	8	.348	42.256	1.	00	59.17
	147	CE2	TYR	54	-+-	29.914	8	.336	42.325	1.	00	60.43
	148	CZ	TYR	54		30.654).120	41.478	1.	.00	60.96
20	149	ОН	TYR	54		27.501	+	1.743	47.269	1	.00	64.48
-0	150	С	TYR	54		27.449		3.517	47.151	1	.00	60.43
	151	0	TYR	54		26,789	+	5.415	48.168	1	.00	62.22
	152	N	ALA		46			4.720	49.112	1	.00	61.72
25	153	CA	ALA		46	25.918 25.780	-	5.540	50.37	3 .	1.00	60.83
	154	СВ	ALA	5	46			4.377	48.57	0	1.00	61.54
	155	С	ALA	5	46	24.536	-+-	3.461	49.06	5	1.00	58.65
30	156	0	ALA	5	46	23.88		5.100	47.54	9	1.00	60.89
30	157	N	GLY		547	24.08	-+-	4.841	47.01	4	1.00	59.44
	158	CA	GLY	!	547	22.76		5.212	48.08	38	1.00	59.45
	159	С	GLY		547	21.76	_	4.460	48.3	92	1.00	58.64
35	160	0	GLY		547	20.84	-+	6.387	48.6	+	1.00	59.64
	161	N	TYR		548	21.96		6.921	49.7		1.00	61.47
	162	CA	TYR		548	21.1		7.970	50.5		1.00	64.12
40	163	СВ	TYR		548	21.9			51.7		1.00	58.9
40	164	CG	TYR		548	21.2		8.421	52.8		1.00	61.6
	165	CD1	TYR		548	21.0		7.534	53.9		1.00	63.6
	166	CE1	TYR		548	20.4		7.927		926	1.00	60.0
45	167	CD2	TYR		548	20.7		9.726	-+	084	1.00	60.5
	168		TYP	}	548	ļ	144	10.129		112	1.00	64.9
	169	C7	TYF	₹	548		964	9.218		262	1.00	-
50	170		TYF	3	548		319	9.579		.080	1.00	
50	170		TYF	3	548		.907	7.569	<u> </u>	.867	1.00	-
	 		TYI	R	548		.755	7.48	<u>`</u>	.871	1.00	
	172		AS	P	549	19	.043	8.20	·		-	-
55	173		AS	P	549	17	7.881	8.88		3.307	+	
	17	5 CB	AS	P	549	16	5.590	8.41	0 4	9.958	1.0	

	ATOM	IIC COORDINATI	ES FOR THE (Z/DEX MODEL		LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	АТОМ
5	176	CG	ASP	549	15.487	8.213	48.935	1.00	59.25
	177	OD1	ASP	549	14.321	7.942	49.306	1.00	61.06
	178	OD2	ASP	549	15.810	8.328	47.734	1.00	61.75
10	179	С	ASP	549	17.979	10.402	49.411	1.00	62.83
	180	0	ASP	549	18.158	11.075	48.400	1.00	60.57
	181	N	SER	550	17.875	10.954	50.617	1.00	59.81
	182	CA	SER	550	17.953	12.415	50.793	1.00	62.38
15	183	СВ	SER	550	19.325	12.951	50.386	1.00	56.99
	184	OG	SER	550	19.438	13.020	48.978	1.00	62.06
	185	С	SER	550	16.894	13.126	49.957	1.00	62.44
20	186	0	SER	550	16.893	14.350	49.843	1.00	61.89
	187	N	SER	551	16.018	12.343	49.343	1.00	61.48
	188	CA	SER	551	14.924	12.875	48.557	1.00	60.05
05	189	СВ	SER	551	14.507	11.886	47.487	1.00	62.39
25	190	OG	SER	551	13.838	10.800	48.100	1.00	61.65
	191	O	SER	551	13.850	12.904	49.615	1.00	60.87
	192	0	SER	551	12.799	13.512	49.452	1.00	59.31
30	193	N	VAL	552	14.142	12.200	50.703	1.00	61.91
	194	CA	VAL	552	13.252	12.096	51.849	1.00	60.13
	195	СВ	VAL	552	12.584	10.695	51.895	1.00	60.55
35	196	CG1	VAL	552	11.242	10.744	51.187	1.00	59.77
	197	CG2	VAL	552	13.461	9.674	51.211	1.00	62.73
	198	С	VAL	552	14.035	12.388	53.141	1.00	58.44
	199	0	VAL	552	15.269	12.482	53.116	1.00	60.59
40	200	N	PRO	553	13.326	12.571	54.278	1.00	59.91
	201	CD	PRO	553	11.861	12.614	54.440	1.00	61.19
	202	CA	PRO	553	13.974	12.859	55.559	1.00	59.95
45	203	СВ	PRO	553	12.865	12.572	56.556	1.00	62.02
	204	CG	PRO	553	11.701	13.166	55.851	1.00	62.09
	205	С	PRO	553	15.263	12.093	55.839	1.00	62.80
	206	0	PRO	553	15.525	11.035	55.259	1.00	61.14
50	207	N	ASP	554	16.058	12.646	56.748	1.00	58.85
	208	CA	ASP	554	17.357	12.084	57.104	1.00	60.06
	209	СВ	ASP	554	18.462	13.098	56.755	1.00	61.56
55	210	CG	ASP	554	18.836	13.106	55.280	1.00	62.42
	211	OD1	ASP	554	17.961	12.964	54.390	1.00	59.77
	212	OD2	ASP	554	20.038	13.286	55.014	1.00	59.95

TABLE 3 (continued)

ATOM		ATOM	IIC COORDINATE	S FOR THE C	R/TIF2/	DEX MODEL U	SED IN MOL	ECULAR R	EPLACE	MENT
213										
214	5		С	ASP	554	17.535	11.703	58.575	1.00	56.92
215		214	0	ASP	554	18.402	12.273	59.229	1.00	61.20
216		ļ	N	SER	555	16.767	10.761	59.116	1.00	62.60
217	10		CA	SER	555	16.970	10.398	60.526	1.00	63.72
218	10		СВ	SER	555	15.998	9.296	60.948	1.00	63.32
219 C SER S55 19.093 9.556 59.794 1.00 59.49 221 N THR 556 18.855 9.877 62.002 1.00 63.20 62.22 CA THR 556 20.554 9.487 63.826 1.00 62.68 62.24 OG1 THR 556 20.554 9.487 63.826 1.00 62.64 62.25 CG2 THR 556 20.893 10.831 64.183 1.00 62.26 62.25 CG2 THR 556 20.387 7.955 61.902 1.00 62.40 62.27 62.28 N TRP 556 21.196 7.633 61.030 1.00 63.77 62.29 CA TRP 557 19.624 7.082 62.554 1.00 63.04 63.04 62.29 CA TRP 557 19.624 7.082 62.294 1.00 63.04			OG	SER	555	16.267	8.089	60.255	1.00	60.75
221		219	С	SER	555	18.404	9.905	60.749	1.00	61.32
221 N THR 556 20.211 9.407 62.308 1.00 62.68 222 CA THR 556 20.554 9.487 63.826 1.00 62.64 224 OG1 THR 556 20.893 10.831 64.183 1.00 62.26 225 CG2 THR 556 21.739 8.582 64.158 1.00 62.40 226 C THR 556 20.387 7.955 61.902 1.00 62.17 227 O THR 556 21.196 7.633 61.030 1.00 63.77 228 N TRP 557 19.624 7.082 62.554 1.00 63.04 229 CA TRP 557 19.696 5.652 62.294 1.00 63.04 229 CA TRP 557 19.696 5.652 62.294 1.00 63.04 230 CB TRP 557 17.324 4.805 62.064 1.00 61.26 231 CG TRP 557 17.074 3.747 61.123 1.00 60.71 232 CD2 TRP 557 17.074 3.747 61.123 1.00 60.71 233 CE2 TRP 557 17.684 2.511 60.865 1.00 62.45 234 CE3 TRP 557 17.684 2.511 60.865 1.00 62.45 235 CD1 TRP 557 15.560 61.825 1.00 60.50 236 NE1 TRP 557 15.464 3.341 59.296 1.00 61.79 238 CZ3 TRP 557 17.184 1.716 59.836 1.00 62.55 239 CH2 TRP 557 17.184 1.716 59.836 1.00 62.55 241 O TRP 557 19.731 5.362 60.783 1.00 61.95 242 N ARG 558 18.946 6.099 60.001 1.00 63.65 243 CA ARG 558 18.946 6.099 60.001 1.00 63.65 244 CB ARG 558 18.946 6.099 60.001 1.00 63.65 245 CG ARG 558 17.744 6.651 57.926 1.00 62.63 246 CD ARG 558 17.744 6.651 57.926 1.00 62.63 247 NE ARG 558 16.594 7.911 54.011 6.010 63.52 247 NE ARG 558 16.594 7.911 54.011 6.01 63.52 248 CZ ARG 558 16.594 7.911 54.010 63.52	15	220	0	SER	555	19.093	9.556	59.794	1.00	59.49
222 CA THR 556 20.554 9.487 63.826 1.00 62.64 224 OG1 THR 556 20.893 10.831 64.183 1.00 62.26 225 CG2 THR 556 20.893 10.831 64.183 1.00 62.40 226 C THR 556 20.387 7.955 61.902 1.00 62.17 226 C THR 556 21.196 7.633 61.030 1.00 63.77 228 N TRP 557 19.624 7.082 62.554 1.00 63.04 229 CA TRP 557 19.696 5.652 62.294 1.00 63.04 229 CA TRP 557 19.696 5.652 62.294 1.00 63.94 230 CB TRP 557 17.324 4.805 62.064 1.00 61.26 231 CG TRP 557 17.324 4.805 62.064 1.00 64.02 232 CD2 TRP 557 17.074 3.747 61.123 1.00 60.71 233 CE2 TRP 557 17.684 2.511 60.865 1.00 62.45 234 CE3 TRP 557 17.684 2.511 60.865 1.00 62.45 235 CD1 TRP 557 15.570 4.142 60.332 1.00 58.32 236 CD1 TRP 557 15.560 61.825 1.00 60.50 2.45 238 CZ3 TRP 557 15.564 3.341 59.296 1.00 61.79 238 CZ3 TRP 557 15.664 3.341 59.296 1.00 61.79 238 CZ3 TRP 557 17.184 1.716 59.836 1.00 62.55 239 CH2 TRP 557 17.184 1.716 59.836 1.00 62.55 239 CH2 TRP 557 17.184 1.716 59.836 1.00 62.55 239 CH2 TRP 557 19.731 5.362 60.783 1.00 61.59 240 C TRP 557 19.731 5.362 60.783 1.00 61.59 241 O TRP 557 19.731 5.362 60.783 1.00 61.59 242 N ARG 558 18.898 5.873 58.555 1.00 64.57 243 CA ARG 558 18.898 5.873 58.555 1.00 64.57 243 CA ARG 558 18.898 5.873 58.555 1.00 64.57 244 CB ARG 558 17.744 6.651 57.926 1.00 59.03 245 CG ARG 558 17.744 6.651 57.926 1.00 59.03 245 CG ARG 558 17.303 6.070 56.562 1.00 59.03 245 CG ARG 558 17.303 6.070 56.562 1.00 59.03 245 CG ARG 558 17.303 6.070 56.562 1.00 59.03 245 CG ARG 558 17.303 6.070 56.562 1.00 62.63 245 CG ARG 558 17.303 6.070 56.562 1.00 62.63 246 CD ARG 558 17.303 6.070 56.562 1.00 62.63 246 CD ARG 558 17.303 6.070 56.562 1.00 62.63 246 CD ARG 558 17.303 6.070 56.562 1.00 62.63 246 CD ARG 558 17.303 6.070 56.562 1.00 62.63 246 CD ARG 558 17.303 6.070 56.562 1.00 62.63 246 CD ARG 558 17.303 6.070 56.562 1.00 62.63 246 CD ARG 558 17.303 6.070 56.562 1.00 63.63 246 CD ARG 558 17.303 6.070 56.562 1.00 63.63 246 CD ARG 558 16.594 7.911 54.011 54.011 54.01 63.68		221	N	THR	556	18.855	9.877	62.002	1.00	63.20
224 OG1 THR 556 20.893 10.831 64.183 1.00 62.26 225 CG2 THR 556 21.739 8.582 64.158 1.00 62.40 226 C THR 556 21.739 7.955 61.902 1.00 62.17 227 O THR 556 21.196 7.633 61.030 1.00 63.77 228 N TRP 557 19.624 7.082 62.554 1.00 63.04 229 CA TRP 557 19.696 5.652 62.294 1.00 60.39 230 CB TRP 557 18.505 4.923 62.964 1.00 61.26 231 CG TRP 557 17.024 4.805 62.064 1.00 64.02 232 CD2 TRP 557 17.074 3.747 61.123 1.00 60.71 233 CE2 TRP 557 15.970 4.142 60.332 1.00 58.32 234 CE3 TRP 557 17.684 2.511 60.865 1.00 62.45 235 CD1 TRP 557 15.562 5.373 60.780 1.00 59.73 236 NE1 TRP 557 15.562 5.373 60.780 1.00 59.73 237 CZ2 TRP 557 15.464 3.341 59.296 1.00 61.79 238 CZ3 TRP 557 17.184 1.716 59.836 1.00 62.55 239 CH2 TRP 557 19.731 5.362 60.783 1.00 59.76 241 O TRP 557 19.731 5.362 60.783 1.00 59.61 242 N ARG 558 18.896 6.099 60.001 1.00 63.85 243 CB ARG 558 17.303 6.107 56.582 1.00 62.63 244 CB ARG 558 17.303 6.107 56.582 1.00 62.63 245 CG ARG 558 17.303 6.107 56.582 1.00 62.63 246 CD ARG 558 16.221 7.958 55.288 1.00 61.76 247 NE ARG 558 16.594 7.911 54.10 56.340 1.00 63.08 248 CZ ARG 558 16.594 7.911 54.10 6.340 1.00 63.08 249 CZ ARG 558 16.594 7.911 54.10 6.340 1.00 63.08 240 CZ ARG 558 16.594 7.911 54.10 6.100 63.08 241 CB ARG 558 16.594 7.911 54.10 6.100 63.08 242 CB ARG 558 16.594 7.911 54.00 66.13 1.00 62.63 244 CB ARG 558 16.594 7.911 54.00 66.130 1.00 63.08 245 CG ARG 558 16.594 7.911 54.00 66.130 1.00 63.08 246 CD ARG 558 16.594 7.911 54.00 66.130 1.00 63.08 247 NE ARG 558 16.594 7.911 54.00 67.00		222	CA	THR	556	20.211	9.407	62.308	1.00	62.68
224	20	223	СВ	THR	556	20.554	9.487	63.826	1.00	62.64
225		224	OG1	THR	556	20.893	10.831	64.183	1.00	62.26
226			CG2	THR	556	21.739	8.582	64.158	1.00	62.40
227 O THR 558 21.150 7.082 62.554 1.00 63.04 228 N TRP 557 19.624 7.082 62.554 1.00 63.04 229 CA TRP 557 19.696 5.652 62.294 1.00 60.39 230 CB TRP 557 18.505 4.923 62.964 1.00 61.26 231 CG TRP 557 17.324 4.805 62.064 1.00 64.02 232 CD2 TRP 557 17.074 3.747 61.123 1.00 60.71 233 CE2 TRP 557 15.970 4.142 60.332 1.00 58.32 234 CE3 TRP 557 17.684 2.511 60.865 1.00 62.45 235 CD1 TRP 557 16.378 5.760 61.825 1.00 60.50 236 NE1 TRP 557 15.562 5.373 60.780 1.00 59.73 238 CZ3 TRP 557 15.464 3.341 59.296 1.00 61.79 239 CH2 TRP 557 17.184 1.716 59.836 1.00 62.55 239 CH2 TRP 557 16.084 2.136 59.065 1.00 57.76 240 C TRP 557 19.731 5.362 60.783 1.00 59.73 241 O TRP 557 19.731 5.362 60.783 1.00 61.95 242 N ARG 558 18.946 6.099 60.001 1.00 59.61 243 CA ARG 558 18.946 6.099 60.001 1.00 61.85 244 CB ARG 558 17.744 6.651 57.926 1.00 59.03 245 CG ARG 558 16.012 6.780 56.133 1.00 59.07 247 NE ARG 558 16.221 7.958 55.288 1.00 61.76 248 CZ ARG 558 16.221 7.958 55.288 1.00 61.76		226	С	THR	556	20.387	7.955	61.902	1.00	62.17
228	25	227	0	THR	556	21.196	7.633	61.030	1.00	63.77
229 CA THP 357 15.00 5.5.5		228	N	TRP	557	19.624	7.082	62.554	1.00	63.04
230 CB TRP 557 17.324 4.805 62.064 1.00 64.02 232 CD2 TRP 557 17.074 3.747 61.123 1.00 60.71 233 CE2 TRP 557 15.970 4.142 60.332 1.00 58.32 234 CE3 TRP 557 17.684 2.511 60.865 1.00 62.45 235 CD1 TRP 557 16.378 5.760 61.825 1.00 60.50 236 NE1 TRP 557 15.562 5.373 60.780 1.00 59.73 238 CZ3 TRP 557 15.464 3.341 59.296 1.00 61.79 238 CZ3 TRP 557 17.184 1.716 59.836 1.00 62.55 239 CH2 TRP 557 16.084 2.136 59.065 1.00 57.76 240 C TRP 557 19.731 5.362 60.783 1.00 61.95 241 O TRP 557 20.479 4.493 60.332 1.00 59.61 242 N ARG 558 18.946 6.099 60.001 1.00 61.85 243 CA ARG 558 18.946 6.099 60.001 1.00 61.85 244 CB ARG 558 17.744 6.651 57.926 1.00 59.03 245 CG ARG 558 17.303 6.107 56.582 1.00 62.63 246 CD ARG 558 16.012 6.780 56.133 1.00 59.07 247 NE ARG 558 16.221 7.958 55.288 1.00 61.76 248 CZ ARG 558 16.594 7.911 54.011 1.00 63.52		229	CA	TRP	557	19.696	5.652	62.294	1.00	60.39
231	30	230	СВ	TRP	557	18.505	4.923	62.964	1.00	61.26
232		231	CG	TRP	557	17.324	4.805	62.064	1.00	64.02
233 CE2 TRP 557 17.684 2.511 60.865 1.00 62.45 235 CD1 TRP 557 16.378 5.760 61.825 1.00 60.50 236 NE1 TRP 557 15.562 5.373 60.780 1.00 59.73 237 CZ2 TRP 557 15.464 3.341 59.296 1.00 61.79 238 CZ3 TRP 557 17.184 1.716 59.836 1.00 62.55 239 CH2 TRP 557 16.084 2.136 59.065 1.00 57.76 240 C TRP 557 19.731 5.362 60.783 1.00 61.95 241 O TRP 557 20.479 4.493 60.332 1.00 59.61 242 N ARG 558 18.946 6.099 60.001 1.00 61.85 243 CA ARG 558 18.898 5.873 58.555 1.00 64.57 244 CB ARG 558 17.744 6.651 57.926 1.00 59.03 245 CG ARG 558 17.744 6.651 57.926 1.00 59.03 246 CD ARG 558 16.012 6.780 56.133 1.00 62.63 247 NE ARG 558 16.221 7.958 55.288 1.00 61.76 248 CZ ARG 558 16.594 7.911 54.011 1.00 63.52			CD2	TRP	557	17.074	3.747	61.123	1.00	60.71
234 CE3 TRP 557 17.664 2.511 60.565 1.00 60.50 235 CD1 TRP 557 16.378 5.760 61.825 1.00 60.50 236 NE1 TRP 557 15.562 5.373 60.780 1.00 59.73 237 CZ2 TRP 557 15.464 3.341 59.296 1.00 61.79 238 CZ3 TRP 557 17.184 1.716 59.836 1.00 62.55 239 CH2 TRP 557 16.084 2.136 59.065 1.00 57.76 240 C TRP 557 19.731 5.362 60.783 1.00 61.95 241 O TRP 557 20.479 4.493 60.332 1.00 59.61 242 N ARG 558 18.946 6.099 60.001 1.00 61.85 243 CA ARG 558 18.898 5.873 58.555 1.00 64.57 244 CB ARG 558 17.744 6.651 57.926 1.00 59.03 245 CG ARG 558 17.303 6.107 56.582 1.00 59.03 246 CD ARG 558 16.012 6.780 56.133 1.00 59.07 247 NE ARG 558 16.594 7.911 54.011 1.00 63.52 248 CZ ARG 558 16.594 7.911 54.011 1.00 63.52		233	CE2	TRP	557	15.970	4.142	60.332	1.00	58.32
236 NE1 TRP 557 15.562 5.373 60.780 1.00 59.73 237 CZ2 TRP 557 15.464 3.341 59.296 1.00 61.79 238 CZ3 TRP 557 17.184 1.716 59.836 1.00 62.55 239 CH2 TRP 557 16.084 2.136 59.065 1.00 57.76 240 C TRP 557 19.731 5.362 60.783 1.00 61.95 241 O TRP 557 20.479 4.493 60.332 1.00 59.61 242 N ARG 558 18.946 6.099 60.001 1.00 61.85 243 CA ARG 558 18.898 5.873 58.555 1.00 64.57 244 CB ARG 558 17.744 6.651 57.926 1.00 59.03 245 CG ARG 558 17.303 6.107 56.582 1.00 62.63 246 CD ARG 558 16.012 6.780 56.133 1.00 59.07 247 NE ARG 558 16.221 7.958 55.288 1.00 61.76 248 CZ ARG 558 16.594 7.911 54.011 1.00 63.52	35	234	CE3	TRP	557	17.684	2.511	60.865	1.00	62.45
236 NET THP 557 15.464 3.341 59.296 1.00 61.79 238 CZ3 TRP 557 17.184 1.716 59.836 1.00 62.55 239 CH2 TRP 557 16.084 2.136 59.065 1.00 57.76 240 C TRP 557 19.731 5.362 60.783 1.00 61.95 241 O TRP 557 20.479 4.493 60.332 1.00 59.61 242 N ARG 558 18.946 6.099 60.001 1.00 61.85 243 CA ARG 558 18.898 5.873 58.555 1.00 64.57 244 CB ARG 558 17.744 6.651 57.926 1.00 59.03 245 CG ARG 558 17.303 6.107 56.582 1.00 62.63 246 CD ARG 558 16.012 6.780 56.133 1.00 59.07 247 NE ARG 558 16.221 7.958 55.288 1.00 61.76 248 CZ ARG 558 16.594 7.911 54.011 1.00 63.52		235	CD1	TRP	557	16.378	5.760	61.825	1.00	60.50
237 CZ2 TRP 557 15.404 5.51 59.836 1.00 62.55 238 CZ3 TRP 557 17.184 1.716 59.836 1.00 62.55 239 CH2 TRP 557 16.084 2.136 59.065 1.00 57.76 240 C TRP 557 19.731 5.362 60.783 1.00 61.95 241 O TRP 557 20.479 4.493 60.332 1.00 59.61 242 N ARG 558 18.946 6.099 60.001 1.00 61.85 243 CA ARG 558 18.898 5.873 58.555 1.00 64.57 244 CB ARG 558 17.744 6.651 57.926 1.00 59.03 245 CG ARG 558 17.303 6.107 56.582 1.00 62.63 246 CD ARG 558 16.012 6.780 56.133 1.00 59.07 247 NE ARG 558 16.221 7.958 55.288 1.00 61.76 248 CZ ARG 558 16.594 7.911 54.011 1.00 63.52		236	NE1	TRP	557	15.562	5.373	60.780	1.00	59.73
238	40	237	CZ2	TRP	557	15.464	3.341	59.296	1.00	61.79
239 CH2 TRP 557 19.731 5.362 60.783 1.00 61.95 240 C TRP 557 19.731 5.362 60.783 1.00 59.61 241 O TRP 557 20.479 4.493 60.332 1.00 59.61 242 N ARG 558 18.946 6.099 60.001 1.00 61.85 243 CA ARG 558 18.898 5.873 58.555 1.00 64.57 244 CB ARG 558 17.744 6.651 57.926 1.00 59.03 245 CG ARG 558 17.303 6.107 56.582 1.00 62.63 246 CD ARG 558 16.012 6.780 56.133 1.00 59.07 247 NE ARG 558 16.221 7.958 55.288 1.00 61.76 248 CZ ARG 558 16.594 7.911 54.011 1.00 63.52		238	CZ3	TRP	557	17.184	1.716	59.836	1.00	62.55
45 240 C TRP 557 20.479 4.493 60.332 1.00 59.61 242 N ARG 558 18.946 6.099 60.001 1.00 61.85 243 CA ARG 558 18.898 5.873 58.555 1.00 64.57 50 244 CB ARG 558 17.744 6.651 57.926 1.00 59.03 245 CG ARG 558 17.303 6.107 56.582 1.00 62.63 246 CD ARG 558 16.012 6.780 56.133 1.00 59.07 55 247 NE ARG 558 16.221 7.958 55.288 1.00 61.76 248 CZ ARG 558 16.594 7.911 54.011 1.00 63.08		239	CH2	TRP	557	16.084	2.136	59.065	1.00	57.76
241 O TRP 557 20.479 4.493 60.332 1.00 59.61 242 N ARG 558 18.946 6.099 60.001 1.00 61.85 243 CA ARG 558 18.898 5.873 58.555 1.00 64.57 244 CB ARG 558 17.744 6.651 57.926 1.00 59.03 245 CG ARG 558 17.303 6.107 56.582 1.00 62.63 246 CD ARG 558 16.012 6.780 56.133 1.00 59.07 247 NE ARG 558 16.221 7.958 55.288 1.00 61.76 248 CZ ARG 558 16.594 7.911 54.011 1.00 63.52		240	С	TRP	557	19.731	5.362	60.783	1.00	61.95
242 N ARG 558 18.898 5.873 58.555 1.00 64.57 244 CB ARG 558 17.744 6.651 57.926 1.00 59.03 245 CG ARG 558 17.303 6.107 56.582 1.00 62.63 246 CD ARG 558 16.012 6.780 56.133 1.00 59.07 247 NE ARG 558 16.221 7.958 55.288 1.00 61.76 248 CZ ARG 558 16.594 7.911 54.011 1.00 63.52	45	241	0	TRP	557	20.479	4.493	60.332	1.00	59.61
50		242	N	ARG	558	18.946	6.099	60.001	1.00	61.85
50 244 CB ARG 558 17.74 5.55 1.00 62.63 245 CG ARG 558 17.303 6.107 56.582 1.00 62.63 246 CD ARG 558 16.012 6.780 56.133 1.00 59.07 247 NE ARG 558 16.221 7.958 55.288 1.00 61.76 248 CZ ARG 558 16.594 7.911 54.011 1.00 63.52 63.08		243	CA	ARG	558	18.898	5.873	58.555	1.00	64.57
245 CG ARG 558 17.300 5.101 50.00 59.07 246 CD ARG 558 16.012 6.780 56.133 1.00 59.07 247 NE ARG 558 16.221 7.958 55.288 1.00 61.76 248 CZ ARG 558 16.594 7.911 54.011 1.00 63.52	50	244	СВ	ARG	558	17.744	6.651	57.926	1.00	<u> </u>
246 CD ARG 558 16.21 7.958 55.288 1.00 61.76 247 NE ARG 558 16.221 7.958 55.288 1.00 63.52 248 CZ ARG 558 16.594 7.911 54.011 1.00 63.52		245	CG	ARG	558	17.303	6.107	56.582	1.00	
55 248 CZ ARG 558 16.594 7.911 54.011 1.00 63.52		246	CD	ARG	558	16.012	6.780	56.133		ļ
248 CZ ARG 558 16.594 7.911 54.011 1.00 63.02	<i>ee</i>	247	NE	ARG	558	16.221	7.958	55.288	1.00	
249 NH1 ARG 558 16.805 6.745 53.420 1.00 63.08	55	248	CZ	ARG	558	16.594	7.911	54.011	1.00	
		249	NH1	ARG	558	16.805	6.745	53.420	1.00	63.08

	ATOM	IIC COORDINATE	S FOR THE	GR/TIF2	Z/DEX MODEL	USED IN MO	LECULAR	REPLAC	EMENT
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	250	NH2	ARG	558	16.750	9.031	53.319	1.00	60.97
	251	С	ARG	558	20.200	6.222	57.841	1.00	64.20
	252	0	ARG	558	20.573	5.566	56.869	1.00	65.47
10	253	N	ILE	559	20.877	7.266	58.307	1.00	62.87
	254	CA	ILE	559	22.156	7.678	57.726	1.00	59.66
	255	СВ	ILE	559	22.639	9.040	58.329	1.00	62.98
	256	CG2	ILE	559	24.101	9.278	57.993	1.00	59.64
15	257	CG1	ILE	559	21.794	10.196	57.791	1.00	61.72
	258	CD1	ILE	559	22.091	10.556	56.351	1.00	60.58
	259	С	ILE	559	23.152	6.585	58.119	1.00	62.05
20	260	0	ILE	559	23.838	5.995	57.274	1.00	61.48
	261	N	MET	560	23.188	6.332	59.425	1.00	60.47
	262	CA	MET	560	24.056	5.340	60.036	1.00	59.72
0.5	263	СВ	MET	560	23.799	5.286	61.554	1.00	61.50
25	264	CG	MET	560	24.863	6.016	62.358	1.00	59.68
	265	SD	MET	560	24.765	5.946	64.183	1.00	62.00
	266	CE	MET	560	25.827	7.029	64.314	1.00	56.75
30	267	С	MET	560	23.910	3.950	59.421	1.00	63.13
	268	0	MET	560	24.908	3.299	59.122	1.00	60.43
	269	N	THR	561	22.680	3.493	59.215	1.00	59.86
35	270	CA	THR	561	22.487	2.183	58.619	1.00	62.03
35	271	СВ	THR	561	21.005	1.771	58.603	1.00	60.73
	272	OG1	THR	561	20.483	1.777	59.938	1.00	58.44
	273	CG2	THR	561	20.862	0.370	58.025	1.00	59.27
40	274	С	THR	561	23.005	2.192	57.190	1.00	62.25
	275	0	THR	561	23.565	1.211	56.724	1.00	59.53
	276	N	THR	562	22.813	3.296	56.482	1.00	61.35
45	277	CA	THR	562	23.305	3.365	55.112	1.00	62.18
70	278	СВ	THR	562	22.728	4.593	54.342	1.00	58.86
i	279	OG1	THR	562	21.338	4.375	54.051	1.00	58.36
ĺ	280	CG2	THR	562	23.473	4.805	53.033	1.00	58.66
50	281	С	THR	562	24.830	3.432	55.157	1.00	62.40
	282	0	THR	562	25.509	3.011	54.225	1.00	59.62
ĺ	283	N	LEU	563	25.374	3.949	56.252	1.00	60.06
55	284	CA	LEV	563	26.825	4.026	56.382	1.00	61.98
	285	СВ	LEU	563	27.230	5.045	57.451	1.00	59.10
[286	CG	LEU	563	27.004	6.519	57.119	1.00	62.03
		- -							

TABLE 3 (continued)

	1701	IC COORDINATE	S FOR THE G	TABLE	3 (continued) DEX MODEL U	SED IN MOL	ECULAR R	EPLACE	MENT
			RESIDUE	#]	x	Y	Z	В	ATOM
5	ATOM	ATOM TYPE		563	27.667	7.377	58.180	1.00	59.83
3	287	CD1	LEU	563	27.574	6.827	55.745	1.00	63.51
	288	CD2	LEU	563	27.406	2.657	56.730	1.00	63.21
	289	С	LEU	 	28.592	2.410	56.529	1.00	59.14
10	290	0	LEU	563	26.567	1.773	57.264	1.00	59.68
	291	N	ASN	564	27.001	0.427	57.606	1.00	62.50
	292	CA	ASN	564	26.110	-0.166	58.689	1.00	61.63
15	293	СВ	ASN	564	26.456	0.349	60.058	1.00	62.37
15	294	CG	ASN	564		0.513	60.381	1.00	62.36
	295	OD1	ASN	564	27.625	0.590	60.881	1.00	59.03
	296	ND2	ASN	564	25.447		56.356	1.00	61.40
20	297	С	ASN	564	26.949	-0.442		1.00	61.63
	298	0	ASN	564	27.823	-1.266	56.121		62.42
	299	N	MET	565	25.923	-0.251	55.543	1.00	63.45
	300	CA	MET	565	25.804	-1.022	54.320	1.00	
25	301	СВ	MET	565	24.483	-0.701	53.632	1.00	59.10
	302	CG	MET	565	23.266	-0.999	54.488	1.00	62.52
	303	SD	MET	565	23.154	-2.742	54.883	1.00	63.35
30	304	CE	MET	565	22.918	-2.702	56.627	1.00	60.16
	305	С	MET	565	26.967	-0.669	53.410	1.00	62.27
	306	0	MET	565	27.475	-1.509	52.677	1.00	62.01
	307	N	LEU	566	27.382	0.590	53.462	1.00	62.25
35	308	CA	LEU	566	28.495	1.064	52.656	1.00	60.20
	309	СВ	LEU	566	28.596	2.594	52.741	1.00	59.50
	310	CG	LEU	566	29.801	3.267	52.076	1.00	64.18
40	311	CD1	LEU	566	29.685	3.195	50.565	1.00	61.46
	312	CD2	LEU	566	29.869	4.700	52.516	1.00	62.10
	313	С	LEU	566	29.756	0.424	53.218	1.00	62.85
	314	0	LEU	566	30.576	-0.116	52.474	1.00	60.20
45	315	N	GLY	567	29.886	0.477	54.542	1.00	59.45
	316	CA	GLY	567	31.040	-0.095	55.207	1.00	59.94
	317	С	GLY	567	31.316	-1.516	54.768	1.00	60.71
50	318	0	GLY	567	32.461	-1.890	54.520	1.00	59.79
50	319	N	GLY	568	30.261	-2.310	54.667	1.00	61.99
	<u> </u>	CA	GLY	568	30.417	-3.687	54.254	1.00	59.73
	320	C	GLY	568		-3.836	52.888	1.00	60.65
55	321	0	GLY	568		-4.590	52.724	1.00	63.15
	322		ARG	569	00.500		51.907	1.00	58.99
	323	N							<u> </u>

ATOM		ATOM	IIC COORDINATE	S FOR THE (GR/TIF2	Z/DEX MODEL	USED IN MO	LECULAR	REPLAC	EMENT
S25		ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
326	5	324	CA	ARG	569	31.049	-3.208	50.557	1.00	60.81
10 327		325	СВ	ARG	569	30.109	-2.483	49.600	1.00	60.57
328		326	CG	ARG	569	28.696	-3.029	49.701	1.00	61.60
329 CZ	10	327	CD	ARG	569	27.806	-2.602	48.556	1.00	64.73
330		328	NE	ARG	569	27.561	-1.168	48.564	1.00	61.17
331		329	CZ	ARG	569	27.939	-0.352	47.590	1.00	60.00
331 NH2 ARG 569 27.681 0.946 47.680 1.00 63.69 332 C ARG 569 32.462 -2.676 50.447 1.00 61.15 333 O ARG 569 33.249 -3.137 49.620 1.00 60.59 334 N GLN 570 32.788 -1.713 51.295 1.00 60.73 335 CA GLN 570 34.123 -1.132 51.300 1.00 62.31 336 CB GLN 570 34.143 0.150 52.120 1.00 59.04 337 CG GLN 570 33.608 1.361 51.417 1.00 62.03 338 CD GLN 570 33.460 3.698 51.801 1.00 62.86 340 NE2 GLN 570 34.295 2.449 53.467 1.00 63.17 341 C GLN 570 35.144 -2.093 51.882 1.00 61.15 342 O GLN 570 36.293 -2.134 51.441 1.00 60.59 343 N VAL 571 34.732 -2.837 52.903 1.00 60.99 344 CA VAL 571 35.615 3.792 53.554 1.00 61.91 345 CB VAL 571 35.654 -4.200 54.930 1.00 66.58 346 CG1 VAL 571 35.654 -4.200 54.930 1.00 60.58 347 CG2 VAL 571 35.805 -5.007 52.665 1.00 62.66 349 O VAL 571 35.805 -5.007 52.665 1.00 62.66 349 O VAL 571 35.805 -5.007 52.665 1.00 62.66 349 O VAL 571 35.805 -5.007 52.665 1.00 63.61 350 N ILE 572 34.958 -5.116 51.652 1.00 63.61 351 CA ILE 572 33.794 -7.443 48.83 1.00 63.63 353 CG2 ILE 572 33.794 -7.443 48.83 1.00 63.63 354 CG1 ILE 572 33.799 -5.772 49.589 1.00 60.35 355 CD1 ILE 572 33.799 -5.772 49.589 1.00 60.35 358 N ALA 573 35.984 -4.481 49.265 1.00 62.76 359 CA ALA 573 35.984 -4.481 49.265 1.00 62.76	45	330	NH1	ARG	569	28.577	-0.841	46.532	1.00	60.46
333 O ARG 569 33.249 -3.137 49.620 1.00 60.59 334 N GLN 570 32.788 -1.713 51.295 1.00 60.73 335 CA GLN 570 34.123 -1.132 51.300 1.00 62.31 336 CB GLN 570 34.143 0.150 52.120 1.00 59.04 337 CG GLN 570 33.608 1.361 51.417 1.00 62.03 338 CD GLN 570 33.782 2.606 52.247 1.00 56.35 339 OE1 GLN 570 33.460 3.698 51.801 1.00 62.86 340 NE2 GLN 570 33.460 3.698 51.801 1.00 62.86 341 C GLN 570 33.444 -2.093 51.882 1.00 61.15 342 O GLN 570 36.293 -2.134 51.441 1.00 60.50 343 N VAL 571 34.732 -2.837 52.903 1.00 60.99 344 CA VAL 571 35.615 -3.792 53.554 1.00 61.91 345 CB VAL 571 35.054 -4.200 54.930 1.00 69.99 346 CG1 VAL 571 35.805 -5.007 55.891 1.00 65.27 349 O VAL 571 35.805 -5.007 52.665 1.00 62.66 349 O VAL 571 36.698 -5.820 52.885 1.00 60.58 349 O VAL 571 36.698 -5.820 52.885 1.00 63.61 349 C VAL 571 36.698 -5.820 52.885 1.00 63.61 350 N ILE 572 33.649 -6.539 50.103 1.00 60.98 351 CA ILE 572 33.649 -6.539 50.103 1.00 60.98 353 CG2 ILE 572 33.649 -6.539 50.103 1.00 60.98 354 CG1 ILE 572 33.794 -7.443 48.883 1.00 63.63 355 CD1 ILE 572 33.794 -7.443 48.883 1.00 63.63 356 C ILE 572 33.799 -5.772 49.589 1.00 60.35 357 O ILE 572 33.999 -5.772 49.589 1.00 62.76 358 N ALA 573 35.984 -4.481 49.265 1.00 62.76 359 CA ALA 573 35.984 -4.481 49.265 1.00 62.76	15	331	NH2	ARG	569	27.681	0.946	47.680	1.00	63.69
334		332	С	ARG	569	32.462	-2.676	50.447	1.00	61.15
335 CA GLN 570 34.123 -1.132 51.300 1.00 62.31 336 CB GLN 570 34.143 0.150 52.120 1.00 59.04 337 CG GLN 570 33.608 1.361 51.417 1.00 62.03 338 CD GLN 570 33.782 2.606 52.247 1.00 56.35 339 OE1 GLN 570 33.460 3.698 51.801 1.00 62.86 340 NE2 GLN 570 34.295 2.449 53.467 1.00 63.17 341 C GLN 570 35.144 -2.093 51.882 1.00 61.15 342 O GLN 570 36.293 -2.134 51.441 1.00 60.50 343 N VAL 571 34.732 -2.837 52.903 1.00 60.99 344 CA VAL 571 35.615 -3.792 53.554 1.00 61.91 345 CB VAL 571 35.054 -4.200 54.930 1.00 60.58 346 CG1 VAL 571 35.822 -5.393 55.485 1.00 61.27 347 CG2 VAL 571 35.805 -5.007 52.665 1.00 62.66 349 O VAL 571 36.698 -5.820 52.885 1.00 63.61 349 O VAL 571 36.698 -5.820 52.885 1.00 63.61 350 N ILE 572 34.958 -5.116 51.652 1.00 63.61 351 CA ILE 572 33.649 -6.539 50.103 1.00 60.98 353 CG2 ILE 572 33.794 -7.443 48.883 1.00 63.63 354 CG1 ILE 572 33.794 -7.443 48.883 1.00 63.63 355 CD1 ILE 572 33.794 -7.443 48.883 1.00 63.63 357 O ILE 572 33.999 -5.772 49.589 1.00 62.76 358 N ALA 573 35.984 -4.481 49.265 1.00 62.76 359 CA ALA 573 35.984 -4.481 49.265 1.00 62.76		333	0	ARG	569	33.249	-3.137	49.620	1.00	60.59
25	20	334	N	GLN	570	32.788	-1.713	51.295	1.00	60.73
25 337 CG GLN 570 33.608 1.361 51.417 1.00 62.03 338 CD GLN 570 33.762 2.606 52.247 1.00 56.35 339 OE1 GLN 570 33.460 3.698 51.801 1.00 62.86 340 NE2 GLN 570 34.295 2.449 53.467 1.00 63.17 341 C GLN 570 35.144 -2.093 51.882 1.00 61.15 342 O GLN 570 36.293 -2.134 51.441 1.00 60.50 343 N VAL 571 34.732 -2.837 52.903 1.00 60.99 345 CB VAL 571 35.615 -3.792 53.554 1.00 61.91 346 CG1 VAL 571 35.822 -5.393 55.485 1.00 61.27 347 CG2 VAL 571 35.822 -5.393 55.485 1.00 61.27 348 C VAL 571 35.805 -5.007 52.665 1.00 62.66 349 O VAL 571 36.698 -5.820 52.885 1.00 63.61 350 N ILE 572 34.958 -5.116 51.652 1.00 63.61 351 CA ILE 572 33.649 -6.539 50.103 1.00 60.98 353 CG2 ILE 572 33.794 -7.443 48.883 1.00 63.63 354 CG1 ILE 572 33.794 -7.443 48.883 1.00 63.63 354 CG1 ILE 572 33.794 -7.443 48.883 1.00 63.63 355 CD1 ILE 572 33.794 -7.443 48.883 1.00 63.63 356 C ILE 572 33.799 -5.772 49.589 1.00 62.17 356 C ILE 572 35.999 -5.772 49.589 1.00 62.76 357 O ILE 572 36.733 -6.587 49.042 1.00 62.76 358 N ALA 573 35.889 -3.936 48.251 1.00 58.47 359 CA ALA 573 36.879 -3.936 48.251 1.00 58.47 350 CA ALA 573 36.879 -3.936 48.251 1.00 58.47 350 CA ALA 573 36.879 -3.936 48.251 1.00 58.47 350 CA ALA 573 36.879 -3.936 48.251 1.00 58.47 350 CA ALA 573 36.879 -3.936 48.251 1.00 58.47		335	CA	GLN	570	34.123	-1.132	51.300	1.00	62.31
338		336	СВ	GLN	570	34.143	0.150	52.120	1.00	59.04
338 CD GLN 570 33.782 2.606 52.247 1.00 56.35 339 OE1 GLN 570 33.460 3.698 51.801 1.00 62.86 340 NE2 GLN 570 34.295 2.449 53.467 1.00 63.17 341 C GLN 570 35.144 -2.093 51.882 1.00 61.15 342 O GLN 570 36.293 -2.134 51.441 1.00 60.50 343 N VAL 571 34.732 -2.837 52.903 1.00 60.99 344 CA VAL 571 35.615 -3.792 53.554 1.00 61.91 345 CB VAL 571 35.054 -4.200 54.930 1.00 58.42 346 CG1 VAL 571 35.822 -5.393 55.485 1.00 61.27 347 CG2 VAL 571 35.805 -5.007 52.665 1.00 62.66 349 O VAL 571 36.698 -5.820 52.885 1.00 63.61 349 O VAL 571 36.698 -5.820 52.885 1.00 63.61 350 N ILE 572 34.958 -5.116 51.652 1.00 63.61 351 CA ILE 572 33.649 -6.539 50.103 1.00 60.98 353 CG2 ILE 572 33.794 -7.443 48.883 1.00 63.63 354 CG1 ILE 572 33.794 -7.443 48.883 1.00 63.63 355 CD1 ILE 572 33.794 -7.443 48.883 1.00 63.63 356 C ILE 572 35.999 -5.772 49.589 1.00 60.35 357 O ILE 572 35.999 -5.772 49.589 1.00 62.76 358 N ALA 573 35.984 -4.481 49.265 1.00 62.76 359 CA ALA 573 35.984 -4.481 49.265 1.00 62.76	05	337	CG	GLN	570	33.608	1.361	51.417	1.00	62.03
340 NE2 GLN 570 34.295 2.449 53.467 1.00 63.17 341 C GLN 570 35.144 -2.093 51.882 1.00 61.15 342 O GLN 570 36.293 -2.134 51.441 1.00 60.50 343 N VAL 571 34.732 -2.837 52.903 1.00 60.99 344 CA VAL 571 35.615 -3.792 53.554 1.00 61.91 345 CB VAL 571 35.054 -4.200 54.930 1.00 60.58 346 CG1 VAL 571 35.822 -5.393 55.485 1.00 61.27 347 CG2 VAL 571 35.160 -3.007 55.891 1.00 60.58 348 C VAL 571 35.805 -5.007 52.665 1.00 62.66 349 O VAL 571 36.698 -5.820 52.885 1.00 58.99 350 N ILE 572 34.958 -5.116 51.652 1.00 63.61 351 CA ILE 572 33.649 -6.539 50.103 1.00 63.76 352 CB ILE 572 33.649 -6.539 50.103 1.00 63.63 354 CG1 ILE 572 33.794 -7.443 48.883 1.00 63.63 355 CD1 ILE 572 31.346 -7.366 50.801 1.00 62.17 356 C ILE 572 35.999 -5.772 49.589 1.00 60.35 357 O ILE 572 36.733 -6.587 49.042 1.00 62.76 359 CA ALA 573 35.984 -4.481 49.265 1.00 62.76	25	338	CD	GLN	570	33.782	2.606	52.247	1.00	56.35
341		339	OE1	GLN	570	33.460	3.698	51.801	1.00	62.86
342 O GLN 570 36.293 -2.134 51.441 1.00 60.50 343 N VAL 571 34.732 -2.837 52.903 1.00 60.99 344 CA VAL 571 35.615 -3.792 53.554 1.00 61.91 345 CB VAL 571 35.054 -4.200 54.930 1.00 58.42 346 CG1 VAL 571 35.822 -5.393 55.485 1.00 61.27 347 CG2 VAL 571 35.805 -5.007 52.665 1.00 60.58 348 C VAL 571 35.805 -5.007 52.665 1.00 62.66 349 O VAL 571 36.698 -5.820 52.885 1.00 58.99 350 N ILE 572 34.958 -5.116 51.652 1.00 63.61 351 CA ILE 572 35.042 -6.206 50.695 1.00 63.61 352 CB ILE 572 33.649 -6.539 50.103 1.00 60.98 353 CG2 ILE 572 33.794 -7.443 48.883 1.00 63.63 354 CG1 ILE 572 32.782 -7.192 51.183 1.00 61.03 50 355 CD1 ILE 572 31.346 -7.366 50.801 1.00 62.17 356 C ILE 572 35.999 -5.772 49.589 1.00 60.35 357 O ILE 572 35.984 -4.481 49.265 1.00 62.76 359 CA ALA 573 35.984 -4.481 49.265 1.00 62.76		340	NE2	GLN	570	34.295	2.449	53.467	1.00	63.17
343 N VAL 571 34.732 -2.837 52.903 1.00 60.99 344 CA VAL 571 35.615 -3.792 53.554 1.00 61.91 345 CB VAL 571 35.054 -4.200 54.930 1.00 58.42 346 CG1 VAL 571 35.822 -5.393 55.485 1.00 61.27 347 CG2 VAL 571 35.805 -5.007 52.665 1.00 60.58 348 C VAL 571 36.698 -5.820 52.885 1.00 62.66 349 O VAL 571 36.698 -5.820 52.885 1.00 58.99 350 N ILE 572 34.958 -5.116 51.652 1.00 63.61 351 CA ILE 572 35.042 -6.206 50.695 1.00 63.76 352 CB ILE 572 33.649 -6.539 50.103 1.00 60.98 353 CG2 ILE 572 33.794 -7.443 48.883 1.00 63.63 354 CG1 ILE 572 32.782 -7.192 51.183 1.00 61.03 50 355 CD1 ILE 572 31.346 -7.366 50.801 1.00 62.17 356 C ILE 572 35.999 -5.772 49.589 1.00 60.35 357 O ILE 572 36.733 -6.587 49.042 1.00 62.13 358 N ALA 573 35.984 -4.481 49.265 1.00 62.76 359 CA ALA 573 36.879 -3.936 48.251 1.00 58.47	30	341	С	GLN	570	35.144	-2.093	51.882	1.00	61.15
344 CA VAL 571 35.615 -3.792 53.554 1.00 61.91 345 CB VAL 571 35.054 -4.200 54.930 1.00 58.42 346 CG1 VAL 571 35.822 -5.393 55.485 1.00 61.27 347 CG2 VAL 571 35.822 -5.393 55.485 1.00 60.58 348 C VAL 571 35.805 -5.007 52.665 1.00 62.66 349 O VAL 571 36.698 -5.820 52.885 1.00 58.99 350 N ILE 572 34.958 -5.116 51.652 1.00 63.61 351 CA ILE 572 33.649 -6.539 50.103 1.00 60.98 352 CB ILE 572 33.649 -6.539 50.103 1.00 60.98 353 CG2 ILE 572 33.794 -7.443 48.883 1.00 63.63 354 CG1 ILE 572 32.782 -7.192 51.183 1.00 61.03 50 355 CD1 ILE 572 31.346 -7.366 50.801 1.00 62.17 356 C ILE 572 35.999 -5.772 49.589 1.00 60.35 357 O ILE 572 36.733 -6.587 49.042 1.00 62.13 358 N ALA 573 35.984 -4.481 49.265 1.00 62.76 359 CA ALA 573 35.879 -3.936 48.251 1.00 58.47		342	0	GLN	570	36.293	-2.134	51.441	1.00	60.50
345 CB VAL 571 35.054 -4.200 54.930 1.00 58.42 346 CG1 VAL 571 35.822 -5.393 55.485 1.00 61.27 347 CG2 VAL 571 35.160 -3.007 55.891 1.00 60.58 348 C VAL 571 35.805 -5.007 52.665 1.00 62.66 349 O VAL 571 36.698 -5.820 52.885 1.00 58.99 350 N ILE 572 34.958 -5.116 51.652 1.00 63.61 351 CA ILE 572 35.042 -6.206 50.695 1.00 63.76 352 CB ILE 572 33.649 -6.539 50.103 1.00 60.98 353 CG2 ILE 572 33.794 -7.443 48.883 1.00 63.63 354 CG1 ILE 572 32.782 -7.192 51.183 1.00 61.03 50 355 CD1 ILE 572 31.346 -7.366 50.801 1.00 62.17 366 C ILE 572 35.999 -5.772 49.589 1.00 60.35 357 O ILE 572 36.733 -6.587 49.042 1.00 62.13 358 N ALA 573 35.984 -4.481 49.265 1.00 62.76		343	N	VAL	571	34.732	-2.837	52.903	1.00	60.99
345 CB VAL 571 35.054 -4.200 54.930 1.00 58.42 346 CG1 VAL 571 35.822 -5.393 55.485 1.00 61.27 347 CG2 VAL 571 35.160 -3.007 55.891 1.00 60.58 348 C VAL 571 35.805 -5.007 52.665 1.00 62.66 349 O VAL 571 36.698 -5.820 52.885 1.00 58.99 350 N ILE 572 34.958 -5.116 51.652 1.00 63.61 351 CA ILE 572 33.042 -6.206 50.695 1.00 63.76 352 CB ILE 572 33.649 -6.539 50.103 1.00 60.98 353 CG2 ILE 572 33.794 -7.443 48.883 1.00 63.63 354 CG1 ILE 572 32.782 -7.192 51.183 1.00 61.03 50 355 CD1 ILE 572 31.346 -7.366 50.801 1.00 62.17 366 C ILE 572 35.999 -5.772 49.589 1.00 60.35 357 O ILE 572 36.733 -6.587 49.042 1.00 62.13 358 N ALA 573 35.984 -4.481 49.265 1.00 58.47	35	344	CA	VAL	571	35.615	-3.792	53.554	1.00	61.91
347	00	345	СВ	VAL	571	35.054	-4.200	54.930	1.00	58.42
40 348 C VAL 571 35.805 -5.007 52.665 1.00 62.66 349 O VAL 571 36.698 -5.820 52.885 1.00 58.99 350 N ILE 572 34.958 -5.116 51.652 1.00 63.61 351 CA ILE 572 35.042 -6.206 50.695 1.00 63.76 352 CB ILE 572 33.649 -6.539 50.103 1.00 60.98 353 CG2 ILE 572 33.794 -7.443 48.883 1.00 63.63 354 CG1 ILE 572 32.782 -7.192 51.183 1.00 61.03 50 355 CD1 ILE 572 31.346 -7.366 50.801 1.00 62.17 356 C ILE 572 35.999 -5.772 49.589 1.00 60.35 357		346	CG1	VAL	571	35.822	-5.393	55.485	1.00	61.27
349 O VAL 571 36.698 -5.820 52.885 1.00 58.99 350 N ILE 572 34.958 -5.116 51.652 1.00 63.61 351 CA ILE 572 35.042 -6.206 50.695 1.00 63.76 352 CB ILE 572 33.649 -6.539 50.103 1.00 60.98 353 CG2 ILE 572 33.794 -7.443 48.883 1.00 63.63 354 CG1 ILE 572 32.782 -7.192 51.183 1.00 61.03 50 355 CD1 ILE 572 31.346 -7.366 50.801 1.00 62.17 356 C ILE 572 35.999 -5.772 49.589 1.00 60.35 357 O ILE 572 36.733 -6.587 49.042 1.00 62.13 358 N ALA 573 35.984 -4.481 49.265 1.00 62.76 359 CA ALA 573 36.879 -3.936 48.251 1.00 58.47		347	CG2	VAL	571	35.160	-3.007	55.891	1.00	60.58
350 N ILE 572 34.958 -5.116 51.652 1.00 63.61 351 CA ILE 572 35.042 -6.206 50.695 1.00 63.76 352 CB ILE 572 33.649 -6.539 50.103 1.00 60.98 353 CG2 ILE 572 33.794 -7.443 48.883 1.00 63.63 354 CG1 ILE 572 32.782 -7.192 51.183 1.00 61.03 50 355 CD1 ILE 572 31.346 -7.366 50.801 1.00 62.17 356 C ILE 572 35.999 -5.772 49.589 1.00 60.35 357 O ILE 572 36.733 -6.587 49.042 1.00 62.13 358 N ALA 573 35.984 -4.481 49.265 1.00 62.76 359 CA ALA 573 36.879 -3.936 48.251 1.00 58.47	40	348	С	VAL	571	35.805	-5.007	52.665	1.00	62.66
351 CA ILE 572 35.042 -6.206 50.695 1.00 63.76 352 CB ILE 572 33.649 -6.539 50.103 1.00 60.98 353 CG2 ILE 572 33.794 -7.443 48.883 1.00 63.63 354 CG1 ILE 572 32.782 -7.192 51.183 1.00 61.03 50 355 CD1 ILE 572 31.346 -7.366 50.801 1.00 62.17 356 C ILE 572 35.999 -5.772 49.589 1.00 60.35 357 O ILE 572 36.733 -6.587 49.042 1.00 62.13 358 N ALA 573 35.984 -4.481 49.265 1.00 62.76 359 CA ALA 573 36.879 -3.936 48.251 1.00 58.47		349	0	VAL	571	36.698	-5.820	52.885	1.00	58.99
45 352 CB ILE 572 33.649 -6.539 50.103 1.00 60.98 353 CG2 ILE 572 33.794 -7.443 48.883 1.00 63.63 354 CG1 ILE 572 32.782 -7.192 51.183 1.00 61.03 50 355 CD1 ILE 572 31.346 -7.366 50.801 1.00 62.17 356 C ILE 572 35.999 -5.772 49.589 1.00 60.35 357 O ILE 572 36.733 -6.587 49.042 1.00 62.13 358 N ALA 573 35.984 -4.481 49.265 1.00 62.76 359 CA ALA 573 36.879 -3.936 48.251 1.00 58.47		350	N	ILE	572	34.958	-5.116	51.652	1.00	63.61
352 CB ILE 572 33.649 -6.539 50.103 1.00 60.98 353 CG2 ILE 572 33.794 -7.443 48.883 1.00 63.63 354 CG1 ILE 572 32.782 -7.192 51.183 1.00 61.03 355 CD1 ILE 572 31.346 -7.366 50.801 1.00 62.17 356 C ILE 572 35.999 -5.772 49.589 1.00 60.35 357 O ILE 572 36.733 -6.587 49.042 1.00 62.13 358 N ALA 573 35.984 -4.481 49.265 1.00 62.76 359 CA ALA 573 36.879 -3.936 48.251 1.00 58.47	45	351	CA	ILE	572	35.042	-6.206	50.695	1.00	63.76
354 CG1 ILE 572 32.782 -7.192 51.183 1.00 61.03 355 CD1 ILE 572 31.346 -7.366 50.801 1.00 62.17 356 C ILE 572 35.999 -5.772 49.589 1.00 60.35 357 O ILE 572 36.733 -6.587 49.042 1.00 62.13 358 N ALA 573 35.984 -4.481 49.265 1.00 62.76 359 CA ALA 573 36.879 -3.936 48.251 1.00 58.47	.	352	СВ	ILE	572	33.649	-6.539	50.103	1.00	60.98
50 355 CD1 ILE 572 31.346 -7.366 50.801 1.00 62.17 356 C ILE 572 35.999 -5.772 49.589 1.00 60.35 357 O ILE 572 36.733 -6.587 49.042 1.00 62.13 358 N ALA 573 35.984 -4.481 49.265 1.00 62.76 359 CA ALA 573 36.879 -3.936 48.251 1.00 58.47		353	CG2	ILE	572	33.794	-7.443	48.883	1.00	63.63
356 C ILE 572 35.999 -5.772 49.589 1.00 60.35 357 O ILE 572 36.733 -6.587 49.042 1.00 62.13 358 N ALA 573 35.984 -4.481 49.265 1.00 62.76 359 CA ALA 573 36.879 -3.936 48.251 1.00 58.47		354	CG1	ILE	572	32.782	-7.192	51.183	1.00	61.03
357 O ILE 572 36.733 -6.587 49.042 1.00 62.13 358 N ALA 573 35.984 -4.481 49.265 1.00 62.76 359 CA ALA 573 36.879 -3.936 48.251 1.00 58.47	50	355	CD1	ILE	572	31.346	-7.366	50.801	1.00	62.17
358 N ALA 573 35.984 -4.481 49.265 1.00 62.76 359 CA ALA 573 36.879 -3.936 48.251 1.00 58.47	Į	356	С	ILE	572	35.999	-5.772	49.589	1.00	60.35
359 CA ALA 573 36.879 -3.936 48.251 1.00 58.47		357	0	ILE	572	36.733	-6.587	49.042	1.00	62.13
359 CA ALA 573 36.879 -3.936 48.251 1.00 58.47	55	358	N	ALA	573	35.984	-4.481	49.265	1.00	62.76
360 CB ALA 573 36.502 -2.496 47.940 1.00 61.48		359	CA	ALA	573	36.879	-3.936	48.251	1.00	58.47
	[360	СВ	ALA	573	36.502	-2.496	47.940	1.00	61.48

TABLE 3 (continued)

				TABLE	3 (continued)	SED IN MOLE	CULAR BE	PLACEM	IENT
	ATOM	IC COORDINATE			DEX MODEL OS	Y	z	В	ATOM
ļ	ATOM	ATOM TYPE	RESIDUE	#	X 00.071	-3.997		1.00	61.14
	361	С	ALA	573	38.271	-4.088	48.180	1.00	60.46
,	362	0	ALA	573	39.294	-3.964	50.200	1.00	60.84
	363	N	ALA	574	38.273	-4.008	51.003	1.00	61.42
	364	CA	ALA	574	39.477	-3.888	52.465	1.00	60.18
	365	СВ	ALA	574	39.098	-5.282	50.771	1.00	58.96
	366	С	ALA	574	40.294	-5.217	50.518	1.00	61.38
	367	0	ALA	574	41.506	-6.435	50.861	1.00	59.99
	368	N	VAL	575	39.631	-7.720	50.664	1.00	59.60
	369	CA	VAL	575	40.296		50.732	1.00	56.06
	370	СВ	VAL	575	39.309	-8.898	50.570	1.00	62.55
ı	371	CG1	VAL	575	40.070	-10.197	52.057	1.00	63.34
	372	CG2	VAL	575	38.547	-8.880	49.318	1.00	60.96
	373	С	VAL	575	41.009	-7.779	49.310	1.00	62.47
	374	0	VAL	575	42.222	-7.981	 	1.00	59.97
5	375	N	LYS	576	40.265	-7.584	48.236	1.00	62.25
	376	CA	LYS	576	40.851	-7.628	46.901	1.00	60.99
	377	СВ	LYS	576	39.770	-7.391	45.860	1.00	61.35
10	378	CG	LYS	576	40.115	-7.866	44.462	1	63.13
	379	CD	LYS	576	38.905	-7.708	43.568	1.00	62.07
	380	CE	LYS	576	37.667	-8.234	44.276	1.00	59.76
	381	NZ	LYS	576	36.420	-7.912	43.531	1.00	63.69
35	382	С	LYS	576	41.957	-6.593	46.742	1.00	59.32
	383	0	LYS	576	42.673	-6.573	45.742	1.00	62.59
	384	N	TRP	577	42.074	-5.723	47.734	1.00	62.35
40	385	CA	TRP	577	43.091	-4.694	47.734		
40	386	СВ	TRP	577	42.556	-3.432	48.424		60.50
	387	CG	TRP	577	43.620	-2.458	48.780		63.03
	388	CD2	TRP	577	44.140	-2.200	50.090		58.79
45	389	CE2	TRP	577	45.189	-1.272	49.945		64.04
	390	CE3	TRP	577	43.824	-2.668	51.372	-	60.5
	391	CD1	TRP	577	7 44.34	-1.698	47.924		62.0
50	392	NE1	TRP	577	7 45.29	3 -0.983	48.611		
50	ļ	CZ2	TRP	57	7 45.93	0 -0.798	51.03		
	393	CZ3	TRP	57	7 44.56	6 -2.197	52.45		
	394	CH2	TRP	57	7 45.60	7 -1.271	52.27		
55	395	 	TRP	57	7 44.26	3 -5.272	48.50	9 1.00	
	396 397		TRP	57	7 45.40	3 -5.238	48.05	5 1.00	61.8

TABLE 3 (continued)

	ATOM	IIC COORDINATE	S FOR THE	GR/TIF2	DEX MODEL	USED IN MOI	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
5	398	N	ALA	578	43.958	-5.824	49.678	1.00	60.10
	399	CA	ALA	578	44.974	-6.411	50.541	1.00	61.99
	400	СВ	ALA	578	44.342	-6.937	51.828	1.00	57.97
10	401	C	ALA	578	45.704	-7.526	49.828	1.00	61.84
	402	0	ALA	578	46.890	-7.718	50.034	1.00	60.47
-	403	N	LYS	579	44.988	-8.251	48.979	1.00	61.79
4=	404	CA	LYS	579	45.573	-9.354	48.233	1.00	60.65
15	405	СВ	LYS	579	44.472	-10.320	47.784	1.00	62.20
	406	CG	LYS	579	43.479	-10.656	48.893	1.00	63.14
	407	CD	LYS	579	42.688	-11.944	48.636	1.00	58.27
20	408	CE	LYS	579	41.775	-11.862	47.419	1.00	58.47
	409	NZ	LYS	579	41.093	-13.167	47.129	1.00	62.99
	410	С	LYS	579	46.389	-8.895	47.024	1.00	61.02
25	411	0	LYS	579	47.014	-9.713	46.356	1.00	63.16
25	412	N	ALA	580	46.383	-7.596	46.738	1.00	61.84
	413	CA	ALA	580	47.153	-7.079	45.610	1.00	58.94
	414	СВ	ALA	580	46.339	-6.062	44.817	1.00	61.14
30	415	С	ALA	580	48.439	-6.446	46.137	1.00	60.40
	416	0	ALA	580	49.378	-6.190	45.374	1.00	60.45
	417	N	ILE	581	48.465	-6.197	47.445	1.00	60.82
35	418	CA	ILE	581	49.631	-5.631	48.111	1.00	60.29
55	419	СВ	ILE	581	49.375	-5.412	49.630	1.00	58.24
	420	CG2	ILE	581	50.654	-4.997	50.324	1.00	63.40
	421	CG1	ILE	581	48.295	-4.353	49.847	1.00	62.12
40	422	CD1	ILE	581	47.769	-4.324	51.257	1.00	62.13
	423	С	ILE	581	50.690	-6.706	47.965	1.00	62.02
	424	0	ILE	581	50.541	-7.805	48.500	1.00	61.29
45	425	N	PRO	582	51.773	-6.412	47.233	1.00	62.24
	426	CD	PRO	582	52.137	-5.123	46.623	1.00	61.16
	427	CA	PRO	582	52.837	-7.397	47.041	1.00	64.30
	428	СВ	PRO	582	53.983	-6.563	46.486	1.00	61.32
50	429	CG	PRO	582	53.294	-5.515	45.720	1.00	57.84
	430	С	PRO	582	53.208	-8.082	48.341	1.00	62.26
	431	0	PRO	582	53.291	-7.451	49.390	1.00	61.55
55	432	N	GLY	583	53.413	-9.386	48.268	1.00	60.04
	433	CA	GLY	583	53.788	-10.138	49.447	1.00	63.24
	434	С	GLY	583	52.721	-10.313	50.509	1.00	58.28

436 N PHE 584 51.527 -9.758 50.320 1.00 437 CA PHE 584 50.517 -9.932 51.354 1.00 438 CB PHE 584 49.356 -8.960 51.200 1.00 439 CG PHE 584 48.314 -9.107 52.276 1.00 440 CD1 PHE 584 48.583 -8.699 53.576 1.00 441 CD2 PHE 584 47.075 -9.677 52.000 1.00 442 CE1 PHE 584 47.636 -8.854 54.586 1.00 443 CE2 PHE 584 46.123 -9.837 53.000 1.00 444 CZ PHE 584 46.405 -9.423 54.296 1.00 445 C PHE 584 49.960 -11.336 51.359 1.00 446 O PHE 584 49.874 -11.967 52.415 1.00 447 N ARG 585 49.584 -11.848 50.193 1.00	MENT
100 100	ATOM
10 10 10 10 10 10 10 10	61.03
10	59.53
10	60.33
A39	59.83
15	62.69
15	65.80
442 CE1 PHE 584 47.636 -8.854 54.586 1.00 443 CE2 PHE 584 46.123 -9.837 53.000 1.00 444 CZ PHE 584 46.405 -9.423 54.296 1.00 445 C PHE 584 49.960 -11.336 51.359 1.00 446 O PHE 584 49.960 -11.336 51.359 1.00 446 O PHE 584 49.960 -11.336 51.359 1.00 447 N ARG 585 49.674 -11.967 52.415 1.00 447 N ARG 585 49.584 -11.848 50.193 1.00 448 CA ARG 585 49.021 -13.183 50.207 1.00 449 CB ARG 585 48.025 -13.405 49.042 1.00 450 CG ARG <	59.15
443	63.90
20 444 CZ PHE 584 46.405 -9.423 54.296 1.00 445 C PHE 584 49.960 -11.336 51.359 1.00 446 O PHE 584 49.874 -11.967 52.415 1.00 447 N ARG 585 49.584 -11.848 50.193 1.00 448 CA ARG 585 49.021 -13.183 50.207 1.00 449 CB ARG 585 48.025 -13.405 49.042 1.00 450 CG ARG 585 48.486 -13.212 47.602 1.00 451 CD ARG 585 47.253 -13.326 46.690 1.00 452 NE ARG 585 45.253 -14.826 46.592 1.00 453 CZ ARG 585 44.934 -14.430 45.360 1.00 454 NH1	62.77
20	62.23
446 O PHE 584 49.874 -11.967 52.415 1.00 447 N ARG 585 49.584 -11.848 50.193 1.00 448 CA ARG 585 49.021 -13.183 50.207 1.00 449 CB ARG 585 48.025 -13.405 49.042 1.00 450 CG ARG 585 48.486 -13.212 47.602 1.00 451 CD ARG 585 47.253 -13.326 46.690 1.00 452 NE ARG 585 46.321 -14.325 47.226 1.00 453 CZ ARG 585 45.253 -14.826 46.592 1.00 454 NH1 ARG 585 44.934 -14.430 45.360 1.00 455 NH2 ARG 585 50.053 -14.290 50.303 1.00 456 C ARG 585 49.781 -15.436 49.962 1.00 457 O ARG 585 49.781 -15.436 49.962 1.00 458 N ASN 586 51.232 -13.935 50.811 1.00 460 CB ASN 586 53.659 -14.893 51.021 1.00 461 CG ASN 586 53.659 -14.329 50.545 1.00 462 OD1 ASN 586 53.910 -14.596 49.071 1.00 463 ND2 ASN 586 53.093 -16.138 52.916 1.00 50 466 N LEU 587 51.692 -14.446 53.314 1.00	59.87
25	60.23
25	61.22
449 CB ARG 585 40.25 10.00 1.00 1.00 1.00 451 CD ARG 585 46.321 -14.325 47.26 1.00 453 CZ ARG 585 44.934 -14.430 45.360 1.00 455 NH2 ARG 585 44.509 -15.752 47.194 1.00 456 C ARG 585 49.781 -15.436 49.962 1.00 459 CA ASN 586 53.910 -14.596 49.071 1.00 466 N LEU 587 51.692 -14.446 53.314 1.00 587 51.692 -14.446 53.314 1.00 587 51.692 -14.446 53.314 1.00 587 51.692 -14.446 53.314 1.00 587 51.692 -14.446 53.314 1.00 587 51.692 -14.446 53.314 1.00 587 51.692 -14.446 53.314 1.00 587 51.692 -14.446 53.314 1.00 587 51.692 -14.446 53.314 1.00 587 51.692 -14.446 53.314 1.00 587 51.692 -14.446 53.314 1.00 587 51.692 -14.446 53.314 1.00 587 51.692 -14.446 53.314 1.00 587 51.692 -14.446 53.314 1.00	62.87
450 CG ARG 585 47.253 -13.326 46.690 1.00 451 CD ARG 585 47.253 -13.326 46.690 1.00 452 NE ARG 585 46.321 -14.325 47.226 1.00 453 CZ ARG 585 45.253 -14.826 46.592 1.00 454 NH1 ARG 585 44.934 -14.430 45.360 1.00 455 NH2 ARG 585 44.509 -15.752 47.194 1.00 456 C ARG 585 50.053 -14.290 50.303 1.00 457 O ARG 585 49.781 -15.436 49.962 1.00 458 N ASN 586 51.232 -13.935 50.811 1.00 459 CA ASN 586 52.319 -14.893 51.021 1.00 460 CB ASN 586 53.659 -14.329 50.545 1.00 461 CG ASN 586 53.910 -14.596 49.071 1.00 462 OD1 ASN 586 53.910 -14.596 49.071 1.00 463 ND2 ASN 586 53.164 -15.551 48.504 1.00 464 C ASN 586 53.093 -16.138 52.503 1.00 465 O ASN 586 53.093 -16.138 52.916 1.00	61.05
451 CD ARG 585 46.321 -14.325 47.226 1.00 452 NE ARG 585 46.321 -14.325 47.226 1.00 453 CZ ARG 585 45.253 -14.826 46.592 1.00 454 NH1 ARG 585 44.934 -14.430 45.360 1.00 455 NH2 ARG 585 44.509 -15.752 47.194 1.00 456 C ARG 585 50.053 -14.290 50.303 1.00 457 O ARG 585 49.781 -15.436 49.962 1.00 458 N ASN 586 51.232 -13.935 50.811 1.00 459 CA ASN 586 52.319 -14.893 51.021 1.00 460 CB ASN 586 53.659 -14.329 50.545 1.00 461 CG ASN 586 53.910 -14.596 49.071 1.00 462 OD1 ASN 586 53.910 -14.596 49.071 1.00 463 ND2 ASN 586 53.164 -15.551 48.504 1.00 464 C ASN 586 52.396 -15.218 52.503 1.00 465 O ASN 586 53.093 -16.138 52.916 1.00 50 466 N LEU 587 51.692 -14.446 53.314 1.00	62.14
452 NE ARG 505 45.253 -14.826 46.592 1.00 453 CZ ARG 585 45.253 -14.826 46.592 1.00 454 NH1 ARG 585 44.934 -14.430 45.360 1.00 455 NH2 ARG 585 50.053 -14.290 50.303 1.00 456 C ARG 585 50.053 -14.290 50.303 1.00 457 O ARG 585 49.781 -15.436 49.962 1.00 458 N ASN 586 51.232 -13.935 50.811 1.00 460 CB ASN 586 52.319 -14.893 51.021 1.00 460 CB ASN 586 53.659 -14.329 50.545 1.00 461 CG ASN 586 53.910 -14.596 49.071 1.00 462 OD1 ASN 586 54.772 -13.964 48.450 1.00 463 ND2 ASN 586 53.164 -15.551 48.504 1.00 464 C ASN 586 53.093 -16.138 52.916 1.00 50 466 N LEU 587 51.692 -14.446 53.314 1.00	59.51
453 CZ ARG 585 45.253 -14.826 46.592 1.00 454 NH1 ARG 585 44.934 -14.430 45.360 1.00 455 NH2 ARG 585 44.509 -15.752 47.194 1.00 456 C ARG 585 50.053 -14.290 50.303 1.00 457 O ARG 585 49.781 -15.436 49.962 1.00 458 N ASN 586 51.232 -13.935 50.811 1.00 459 CA ASN 586 52.319 -14.893 51.021 1.00 460 CB ASN 586 53.659 -14.329 50.545 1.00 461 CG ASN 586 53.910 -14.596 49.071 1.00 462 OD1 ASN 586 53.164 -15.551 48.504 1.00 464 C ASN 586 52.396 -15.218 52.503 1.00 465 O ASN 586 53.093 -16.138 52.916 1.00 50 466 N LEU 587 51.692 -14.446 53.314 1.00	57.83
455 NH2 ARG 585 44.509 -15.752 47.194 1.00 456 C ARG 585 50.053 -14.290 50.303 1.00 457 O ARG 585 49.781 -15.436 49.962 1.00 458 N ASN 586 51.232 -13.935 50.811 1.00 459 CA ASN 586 52.319 -14.893 51.021 1.00 460 CB ASN 586 53.659 -14.329 50.545 1.00 461 CG ASN 586 53.910 -14.596 49.071 1.00 462 OD1 ASN 586 54.772 -13.964 48.450 1.00 463 ND2 ASN 586 53.164 -15.551 48.504 1.00 464 C ASN 586 52.396 -15.218 52.503 1.00 465 O ASN 586 53.093 -16.138 52.916 1.00 50 466 N LEU 587 51.692 -14.446 53.314 1.00	62.40
455 NH2 ARG 585 50.053 -14.290 50.303 1.00 457 O ARG 585 49.781 -15.436 49.962 1.00 458 N ASN 586 51.232 -13.935 50.811 1.00 459 CA ASN 586 52.319 -14.893 51.021 1.00 460 CB ASN 586 53.659 -14.329 50.545 1.00 461 CG ASN 586 53.910 -14.596 49.071 1.00 462 OD1 ASN 586 54.772 -13.964 48.450 1.00 463 ND2 ASN 586 53.164 -15.551 48.504 1.00 464 C ASN 586 52.396 -15.218 52.503 1.00 50 466 N LEU 587 51.692 -14.446 53.314 1.00	64.51
456	62.15
457 O ANG 586 51.232 -13.935 50.811 1.00 459 CA ASN 586 52.319 -14.893 51.021 1.00 460 CB ASN 586 53.659 -14.329 50.545 1.00 461 CG ASN 586 53.910 -14.596 49.071 1.00 462 OD1 ASN 586 54.772 -13.964 48.450 1.00 463 ND2 ASN 586 53.164 -15.551 48.504 1.00 464 C ASN 586 52.396 -15.218 52.503 1.00 465 O ASN 586 53.093 -16.138 52.916 1.00 50 466 N LEU 587 51.692 -14.446 53.314 1.00	61.04
458 N ASN 586 52.319 -14.893 51.021 1.00 460 CB ASN 586 53.659 -14.329 50.545 1.00 461 CG ASN 586 53.910 -14.596 49.071 1.00 462 OD1 ASN 586 54.772 -13.964 48.450 1.00 463 ND2 ASN 586 53.164 -15.551 48.504 1.00 464 C ASN 586 52.396 -15.218 52.503 1.00 465 O ASN 586 53.093 -16.138 52.916 1.00 50 466 N LEU 587 51.692 -14.446 53.314 1.00	59.18
460 CB ASN 586 53.659 -14.329 50.545 1.00 461 CG ASN 586 53.910 -14.596 49.071 1.00 462 OD1 ASN 586 54.772 -13.964 48.450 1.00 463 ND2 ASN 586 53.164 -15.551 48.504 1.00 464 C ASN 586 52.396 -15.218 52.503 1.00 465 O ASN 586 53.093 -16.138 52.916 1.00 50 466 N LEU 587 51.692 -14.446 53.314 1.00	59.32
461 CG ASN 586 53.910 -14.596 49.071 1.00 462 OD1 ASN 586 54.772 -13.964 48.450 1.00 463 ND2 ASN 586 53.164 -15.551 48.504 1.00 464 C ASN 586 52.396 -15.218 52.503 1.00 465 O ASN 586 53.093 -16.138 52.916 1.00 50 466 N LEU 587 51.692 -14.446 53.314 1.00	62.11
461 CG ASN 586 54.772 -13.964 48.450 1.00 462 OD1 ASN 586 54.772 -13.964 48.450 1.00 463 ND2 ASN 586 53.164 -15.551 48.504 1.00 464 C ASN 586 52.396 -15.218 52.503 1.00 465 O ASN 586 53.093 -16.138 52.916 1.00 50 466 N LEU 587 51.692 -14.446 53.314 1.00	57.88
463 ND2 ASN 586 53.164 -15.551 48.504 1.00 464 C ASN 586 52.396 -15.218 52.503 1.00 465 O ASN 586 53.093 -16.138 52.916 1.00 50 466 N LEU 587 51.692 -14.446 53.314 1.00	62.73
463 ND2 ASN 586 53.164 -13.531 46.304 1.30 464 C ASN 586 52.396 -15.218 52.503 1.00 465 O ASN 586 53.093 -16.138 52.916 1.00 466 N LEU 587 51.692 -14.446 53.314 1.00	64.87
464 C ASN 500 SELECT TO THE SELECT THE SELEC	63.32
50 466 N LEU 587 51.692 -14.446 53.314 1.00	61.24
50 466 N LEO 507 51.652 14.732 54.735 1.00	62.45
467 CA LEU 587 51.677 -14.732 54.735 1.00	62.98
	63.89
468 CB LEU 587 51.210 -13.502 55.522 1.00	63.58
469 CG LEU 587 52.163 -12.299 55.501 1.00	63.59
55 470 CD1 LEU 587 51.405 -11.009 55.348 1.00	58.78
471 CD2 LEU 587 52.967 -12.280 56.773 1.00	60.86

	ATOM	ATOMIC COORDINATES FOR THE GR/TIF2/DEX MODEL USED IN MOLECULAR REPLACEMENT											
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM				
<i>5</i>	472	С	LEU	587	50.679	-15.879	54.848	1.00	61.92				
	473	0	LEU	587	50.000	-16.209	53.865	1.00	61.57				
	474	N	HIS	588	50.598	-16.497	56.024	1.00	57.84				
10	475	CA	HIS	588	49.676	-17.609	56.235	1.00	62.30				
	476	СВ	HIS	588	49.674	-18.016	57.710	1.00	63.47				
	477	CG	HIS	588	49.180	-19.411	57.962	1.00	62.99				
	478	CD2	HIS	588	49.817	-20.502	58.447	1.00	58.47				
15	479	ND1	HIS	588	47.886	-19.808	57.705	1.00	57.63				
	480	CE1	HIS	588	47.748	-21.083	58.021	1.00	60.07				
	481	NE2	HIS	588	48.905	-21.527	58.474	1.00	61.65				
20	482	С	HIS	588	48.304	-17.100	55.839	1.00	61.24				
	483	0	HIS	588	48.137	-15.900	55.641	1.00	58.81				
	484	2	LEU	589	47.325	-17.990	55.714	1.00	60.37				
25	485	CA	LEU	589	45.990	-17.542	55.346	1.00	63.23				
25	486	СВ	LEU	589	45.219	-18.626	54.588	1.00	60.24				
	487	CG	LEU	589	44.233	-18.127	53.516	1.00	59.80				
	488	CD1	LEU	589	43.798	-19.286	52.630	1.00	65.35				
30	489	CD2	LEU	589	43.025	-17.486	54.148	1.00	61.31				
	490	С	LEU	589	45.249	-17.184	56.616	1.00	59.85				
	491	0	LEU	589	44.150	-16.645	56.563	1.00	59.20				
35	492	N	ASP	590	45.852	-17.469	57.763	1.00	60.93				
,	493	CA	ASP	590	45.200	-17.158	59.027	1.00	61.82				
	494	СВ	ASP	590	45.551	-18.204	60.097	1.00	62.69				
	495	CG	ASP	590	44.823	-19.529	59.898	1.00	58.29				
10	496	OD1	ASP	590	44.642	-19.955	58.738	1.00	59.06				
	497	OD2	ASP	590	44.447	-20.159	60.910	1.00	64.34				
	498	C	ASP	590	45.608	-15.771	59.504	1.00	59.77				
15	499	0	ASP	590	44.915	-15.153	60.314	1.00	60.73				
	500	N	ASP	591	46.734	-15.278	59.001	1.00	59.62				
	501	CA	ASP	591	47.211	-13.960	59.401	1.00	61.48				
	502	СВ	ASP	591	48.733	-13.861	59.240	1.00	60.79				
50	503	CG	ASP	591	49.479	-14.900	60.065	1.00	57.79				
	504	OD1	ASP	591	49.012	-15.239	61.176	1.00	66.77				
	505	OD2	ASP	591	50.543	-15.366	59.606	1.00	65.51				
5	506	С	ASP	591	46.531	-12.927	58.529	1.00	62.56				
	507	0	ASP	591	46.255	-11.812	58.967	1,00	59.26				
	508	N	GLN	592	46.278	-13.323	57.285	1.00	62.10				

				EP	1313	51 / A I						
				TABL	E3 (continued)		IN MOLE	CULAR R	 EPL	ACEME	NT
ſ	ATOM	IC COORDINATE	S FOR THE G	R/TIF2	2/DEX	MODEL U	SED 	Y	7	В	A	TOM
	ATOM	ATOM TYPE	RESIDUE	#	<u> </u>				56.316	1.0		61.30
5	509	CA	GLN	592	<u> </u>	45.613		.227	54.998	1.0	0	62.26
	510	СВ	GLN	592	ļ	45.432			54.277	1.0	0	60.59
	511	CG	GLN	592		46.751		1.456	52.909	1.0		59.32
	512	CD	GLN	592		46.595		1.100	52.213	1.0		62.27
10	513	OE1	GLN	592		45.597		3.887	52.505	1.0	00	62.12
	514	NE2	GLN	592		47.600	<u> </u>	4.875	56.906	1.	00	64.75
	515	С	GLN	592		44.269	┼	2.097	56.706	┼	00	62.08
15	516	0	GLN	592	:	43.768	4-	0.993	57.660	1	.00	59.14
	517	N	MET	593	3	43.701	+	3.028	58.302	+	.00	61.78
	518	CA	MET	593	3	42.413	-	2.815	58.597		.00	58.91
	519	СВ	MET	59	3	41.740	+	14.162	57.357		.00	64.30
20	520	CG	MET	59	3	41.290		14.935	57.776	+-	.00	58.06
	521	SD	MET	59	3	40.510	+-	16.524	59.273	+	.00	61.88
	522	CE	MET	59	3	39.514	+-	16.029	59.594		1.00	61.38
25	523	C	MET	59	3	42.571	+	12.014	59.837	-	1.00	60.42
	524	0	MET	59	93	41.802		-11.089	60.41	-	1.00	61.83
	525	N	THR	59	94	43.565	-	-12.361	61.67	-	1.00	61.88
	526	CA	THR	5	94	43.78	-+-	-11.648	62.51	-+	1.00	57.74
30	527	СВ	THR	5	94	44.92	-	-12.267	62.02		1.00	65.18
	528	OG1	THR	5	94	45.25 	$\overline{}$	-13.571	63.97	-+	1.00	62.23
	529	CG2	THR	5	594	44.48	19	-12.393	61.37	-+	1.00	62.61
35	530	С	THR		594	44.12	27	-10.194	62.0	+	1.00	60.17
	531	0	THR	!	594	43.67	73	-9.279	60.3		1.00	60.31
	532	N	LEU		595	44.92		-9.987	59.9		1.00	61.48
40	533	CA	LEU		595	45.3		-8.647	58.8		1.00	62.70
40	534		LEU		595	46.3		-8.712	59.2		1.00	60.61
	535		LEU		595	47.7		-9.074			1.00	63.20
	536	001	LEU		595	48.7		-9.054			1.00	62.5
45	537	000	LEU		595	48.2		-8.083		475	1.00	63.3
	538		LEU		595	44.		-7.823		051	1.00	
	53		LEU		595		835	-6.779		436	1.00	
50	54		LEU		596	<u> </u>	439	-8.290		924	1.00	+
50	54		LEU		596		.282			.699	+	
	54		LEU		596		.703		<u> </u>	.392		
	54		LEU)	596		.351			.254		
55	 	14 CD1	LEU)	596		.036			5.073		
	 	45 CD2		J	596	41	.859	-6.40	0/ 55			

	ATOM	IIC COORDINATI	ES FOR THE	GR/TIF2	Z/DEX MODEL	USED IN MOI	ECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	АТОМ
5	546	С	LEU	596	41.223	-7.424	58.989	1.00	58.32
	547	0	LEU	596	40.451	-6.480	58.965	1.00	61.48
	548	N	GLN	597	41.201	-8.354	59.935	1.00	62.48
10	549	CA	GLN	597	40.230	-8.327	61.031	1.00	64.28
	550	СВ	GLN	597	40.128	-9.712	61.685	1.00	59.49
	551	CG	GLN	597	38.936	-10.561	61.279	1.00	64.66
4.5	552	CD	GLN	597	38.972	-11.940	61.920	1.00	60.50
15	553	OE1	GLN	597	39.080	-12.078	63.149	1.00	60.07
: i	554	NE2	GLN	597	38.881	-12.975	61.087	1.00	65.01
	555	C	GLN	597	40.612	-7.314	62.110	1.00	61.61
20	556	0	GLN	597	39.780	-6.933	62.932	1.00	61.06
	557	N	TYR	598	41.875	-6.896	62.097	1.00	64.61
	558	CA	TYR	598	42.418	-5.958	63.075	1.00	60.76
25	559	СВ	TYR	598	43.761	-6.468	63.588	1.00	59.35
25	560	CG	TYR	598	43.692	-7.564	64.613	1.00	63.67
	561	CD1	TYR	598	42.509	-8.257	64.850	1.00	61.84
	562	CE1	TYR	598	42.451	-9.262	65.812	1.00	61.13
30	563	CD2	TYR	598	44.820	-7.906	65.358	1.00	61.13
	564	CE2	TYR	598	44.774	-8.915	66.322	1.00	62.04
	565	CZ	TYR	598	43.588	-9.583	66.544	1.00	60.04
35	566	ОН	TYR	598	43.536	-10.549	67.519	1.00	62.57
55	567	С	TYR	598	42.639	-4.553	62.549	1.00	62.24
	568	0	TYR	598	43.158	-3.690	63.256	1.00	61.45
	569	N	SER	599	42.278	-4.312	61.305	1.00	58.28
40	570	CA	SER	599	42.491	-2.988	60.774	1.00	62.69
	571	СВ	SER	599	43.837	-2.949	60.046	1.00	62.55
	572	OG	SER	599	44.008	-4.083	59.216	1.00	62.72
45	573	С	SER	599	41.365	-2.525	59.867	1.00	64.40
-	574	0	SER	599	41.398	-1.405	59.367	1.00	62.40
	575	N	TRP	600	40.358	-3.375	59.677	1.00	59.48
	576	CA	TRP	600	39.245	-3.026	58.807	1.00	62.88
50	577	СВ	TRP	600	38.073	-4.031	58.932	1.00	64.17
	578	CG	TRP	600	37.282	-3.951	60.198	1.00	62.02
	579	CD2	TRP	600	36.105	-3.166	60.420	1.00	58.67
55	580	CE2	TRP	600	35.754	-3.311	61.781	1.00	61.68
	581	CE3	TRP	600	35.314	-2.350	59.603	1.00	62.68
[582	CD1	TRP	600	37.583	-4.533	61.395	1.00	58.92

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TABLE 3 (continued)

					TA	BLE 3	(continued)		11401 5	CLILA	R REI	PLAC	EMEN	г \
Г	47014	IC COORDI	NATES F	OR THE G	(continued)	SED II	N MOLE	7		В	ATC	M		
-		ATOM TY	PE R	ESIDUE	#					62.35		1.00	6	4.28
5	ATOM	NE1		TRP	60	0	36.672	-4.1	+	62.34		1.00	6	1.17
	583	CZ2		TRP	60	0	34.648	-2.6		60.15		1.00	5	8.94
	584	CZ3		TRP	60	00	34.217	-1.7		61.5		1.00	1-6	61.08
	585	CH2		TRP	60	00	33.894		871			1.00	1	62.61
10	586	<u> </u>		TRP	60	00	38.789		630	59.1		1.00	+	62.45
	587	C		TRP	6	00	38.533	-0.	805	58.3		1.00		63.90
	588	0		MET	6	01	38.744	-1	.344	60.4		1.00		60.96
	589	N		MET	6	01	38.298	-0	.049	60.8				60.46
15	590	CA		MET	1	301	37.968	-0	.064	62.3		1.00		61.28
	591	СВ				601	37.139	1	.112	62.	702	1.00		
	592	CG		MET		601	35.774		1.420	61.	631	1.00		59.33
20	593	SD		MET		601	34.684	1	1.638	62.	.889	1.0		64.63
•	594	CE		MET			39.225		1.129	60	.577	1.0	0	61.08
	595	С		MET	+	601	38.75		2.167	60	.114	1.0		60.27
	596	0		MET	_	601	40.52	+	0.979	60	.854	1.0	00	61.23
25	597	N		SER		602	41.48		2.035	60).581	1.0	00	59.98
	598	CA	\	SER	_	602	42.87		1.647	6	1.083	1.0	00	60.99
	599	CE	3	SER		602	<u> </u>	-+	1.022	6	2.350	1.	00	66.17
	600	0	3	SER		602	42.78		2.214	5	9.079	1.	00	60.99
30	601	- c		SER		602	41.5		3.327		8.581		.00	64.11
	 			SER		602	41.6				58.351		.00	59.44
	602	N		LEU		603	41.4	-+	1.108	-+-	56.90	- ,	.00	61.46
35	603			LEU		603	41.5	22	1.185		56.28		.00	59.31
	604		B	LEU		603	41.4	102	-0.212		56.34	-	1.00	61.54
	605	<u></u>	G G	LEU		603	42.0	346	-1.097			-	1.00	63.99
	606	<u></u>	DD1	LEU		603	42.	415	-2.362		55.54	-	1.00	63.36
40	60	·		LEU		603	3 43.	828	-0.34	3	55.78		1.00	60.47
	60		CD2	LEU		603	3 40.	386	2.06		56.40		1.00	63.39
	60		<u> </u>	LEU		60	3 40	.599	3.06	2	55.7			63.54
45	61	0	0	MET		60	4 39	.173	1.68	8	56.7		1.00	62.8
43	61	11	N	ME		60	38	.000	2.41	7	56.3	-+	1.00	58.9
	6	12	CA					5.770	1.62	23	56.7	23	1.00	
	6	13	CB	ME				3.632	0.4	29	55.8	342	1.00	59.8
50) 6	14	CG	ME				7.633	0.4	38	54.3	374	1.00	62.5
	6	15	SD	ME				6.663	-0.5	10	53.	559	1.00	60.7
	F	316	CE	ME		_+-	<u> </u>	7.898	+	32	56.	856	1.00	
	1	617	С	ME				37.397		 395	56.	.132	1.00	
55	5	618	0		ET			38.375	 -	 076	58	.072	1.00	59.
		619	N	AL	_A		505							

TABLE 3 (continued)

	ATOMIC COORDINATES FOR THE GR/TIF2/DEX MODEL USED IN MOLECULAR REPLACEMENT											
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM			
5	620	CA	ALA	605	38.357	5.409	58.664	1.00	60.49			
	621	СВ	ALA	605	38.667	5.317	60.132	1.00	59.15			
	622	С	ALA	605	39.381	6.309	57.985	1.00	61.50			
10	623	0	ALA	605	39.071	7.427	57.583	1.00	59.82			
	624	N	PHE	606	40.608	5.810	57.870	1.00	63.59			
	625	CA	PHE	606	41.700	6.554	57.258	1.00	60.15			
	626	СВ	PHE	606	42.981	5.713	57.285	1.00	63.75			
15	627	CG	PHE	606	44.237	6.490	56.999	1.00	64.30			
	628	CD1	PHE	606	44.723	7.424	57.913	1.00	61.77			
	629	CD2	PHE	606	44.957	6.265	55.829	1.00	60.74			
20	630	CE1	PHE	606	45.910	8.118	57.665	1.00	64.00			
	631	CE2	PHE	606	46.145	6.955	55.575	1.00	62.47			
	632	CZ	PHE	606	46.620	7.879	56.496	1.00	63.95			
0.5	633	С	PHE	606	41.362	6.933	55.825	1.00	61.96			
25	634	0	PHE	606	41.751	7.991	55.356	1.00	60.07			
	635	Z	ALA	607	40.644	6.063	55.126	1.00	62.00			
	636	CA	ALA	607	40.264	6.338	53.745	1.00	57.50			
30	637	СВ	ALA	607	39.888	5.051	53.039	1.00	59.69			
	638	O	ALA	607	39.105	7.324	53.684	1.00	64.88			
	639	0	ALA	607	38.931	8.030	52.703	1.00	59.60			
35	640	N	LEU	608	38.292	7.361	54.723	1.00	59.93			
55	641	CA	LEU	608	37.196	8.307	54.725	1.00	61.70			
	642	СВ	LEU	608	36.222	7.972	55.883	1.00	59.57			
	643	CG	LEU	608	35.125	8.918	56.402	1.00	62.57			
40	644	CD1	LEU	608	34.229	9.360	55.287	1.00	63.51			
	645	CD2	LEU	608	34.298	8.246	57.488	1.00	59.98			
	646	С	LEU	608	37.862	9.662	54.935	1.00	61.71			
45	647	0	LEU	608	37.500	10.645	54.294	1.00	57.56			
	648	N	GLY	609	38.869	9.692	55.806	1.00	59.60			
	649	CA	GLY	609	39.583	10.920	56.086	1.00	60.49			
	650	С	GLY	609	40.232	11.505	54.850	1.00	59.17			
50	651	0	GLY	609	40.189	12.710	54.625	1.00	61.65			
	652	N	TRP	610	40.835	10.650	54.039	1.00	62.47			
	653	CA	TRP	610	41.488	11.102	52.823	1.00	61.40			
55	654	СВ	TRP	610	42.141	9.917	52.123	1.00	62.68			
	655	CG	TRP	610	42.744	10.264	50.817	1.00	62.61			
	656	CD2	TRP	610	43.955	10.991	50.604	1.00	61.10			

TABLE 3 (continued)

	TABLE 3 (continued) ATOMIC COORDINATES FOR THE GR/TIF2/DEX MODEL USED IN MOLECULAR REPLACEMENT											
	ATOM	IC COORDINATE				A L	z	В	ATOM			
	ATOM	ATOM TYPE	RESIDUE	#	X			1.00	62.45			
5	657	CE2	TRP	610	44.139	11.095		1.00	63.78			
	658	CE3	TRP	610	44.906	11.565	49.582	1.00	58.08			
	659	CD1	TRP	610	42.254	9.965	48.608	1.00	62.17			
0	660	NE1	TRP	610	43.086	10.459	48.646	1.00	60.53			
	661	CZ2	TRP	610	45.238	11.751		1.00	62.27			
	662	CZ3	TRP	610	46.001	12.219	50.896	1.00	60.31			
	663	CH2	TRP	610	46.156	12.305	49.505	1.00	60.80			
5	664	С	TRP	610	40.517	11.797	51.874		60.72			
	665	0	TRP	610	40.797	12.866	51.358	1.00	61.36			
	666	N	ARG	611	39.368	11.191	51.639	1.00				
20	667	CA	ARG	611	38.412	11.790	50.738	1.00	58.33			
	668	СВ	ARG	611	37.254	10.817	50.486	1.00	62.33			
	669	CG	ARG	611	37.684	9.490	49.873	1.00	60.18			
	670	CD	ARG	611	36.476	8.686	49.426	1.00	59.83			
25	671	NE	ARG	611	35.604	8.333	50.544	1.00	61.17			
	672	CZ	ARG	611	35.817	7.308	51.366	1.00	59.54			
	673	NH1	ARG	611	36.875	6.528	51.187	1.00	61.47			
00	674	NH2	ARG	611	34.988	7.072	52.376	1.00	62.25			
30	675	C	ARG	611	37.898	13.128	51.277	1.00	62.93			
	676	0	ARG	611	37.610	14.051	50.502	1.00	61.13			
	677	N	SER	612	37.806	13.234	52.603	1.00	60.26			
35	678	CA	SER	612	37.321	14.450	53.263	1.00	63.90			
		СВ	SER	612	37.057	14.172	54.736	1.00	62.00			
	679	OG	SER	612	36.011	13.234	54.875	1.00	59.62			
	680	C	SER	612	38.263	15.637	53.137	1.00	61.68			
40	681	0	SER	612		16.776	52.975	1.00	59.32			
	682		TYR	613		15.352	53.226	1.00	64.48			
	683	CA	TYR	613	10.000	16.351	53.111	1.00	60.97			
45	684		TYR	613		15.725	53.587	1.00	56.65			
	685	CB	TYR	613		16.122	52.830	1.00	60.73			
	686	CG	TYR	613			52.746	1.00	64.60			
	687	CD1		613			52.086	1.00	60.79			
50	688	CE1	TYR	613			52.229	1.00	61.29			
	689	CD2	TYR	613			51.564	1.00	63.40			
	690	CE2	TYR	613			51.497	1.00	61.75			
55	691	CZ	TYR				50.854	+	62.46			
	692	ОН	TYR	613			51.667	+	62.4			
	693	С	TYR	613	3 40.71	- 1.0.022						

TABLE 3 (continued)

	ATOM	IIC COORDINATE	S FOR THE	GR/TIF2	DEX MODEL	USED IN MO	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	694	0	TYR	613	40.954	17.996	51.395	1.00	61.34
	695	2	ARG	614	40.511	15.896	50.745	1.00	61.73
	696	CA	ARG	614	40.623	16.190	49.328	1.00	61.64
10	697	СВ	ARG	614	40.835	14.880	48.545	1.00	62.80
	698	CG	ARG	614	42.274	14.328	48.621	1.00	58.30
	699	CD	ARG	614	42.908	14.348	47.242	1.00	60.57
4.0	700	NE	ARG	614	44.369	14.448	47.262	1.00	61.63
15	701	CZ	ARG	614	45.056	15.421	47.868	1.00	63.66
	702	NH1	ARG	614	44.414	16.386	48.521	1.00	61.59
	703	NH2	ARG	614	46.389	15.451	47.797	1.00	64.70
20	704	O	ARG	614	39.440	16.960	48.776	1.00	58.09
	705	0	ARG	614	39.613	17.922	48.041	1.00	63.07
	706	N	GLN	615	38.239	16.538	49.137	1.00	64.09
25	707	CA	GLN	615	37.033	17.192	48.660	1.00	61.67
25	708	СВ	GLN	615	35.840	16.259	48.801	1.00	62.84
	709	CG	GLN	615	35.738	15.162	47.795	1.00	62.14
	710	CD	GLN	615	34.290	14.775	47.573	1.00	58.76
30	711	OE1	GLN	615	33.532	14.598	48.525	1.00	62.70
	712	NE2	GLN	615	33.897	14.651	46.314	1.00	61.03
	713	С	GLN	615	36.677	18.478	49.396	1.00	59.82
35	714	0	GLN	615	36.200	19.441	48.784	1.00	60.64
55	715	N	SER	616	36.901	18.480	50.709	1.00	62.12
	716	CA	SER	616	36.522	19.615	51.545	1.00	62.52
	717	СВ	SER	616	35.199	19.297	52.239	1.00	61.86
40	718	OG	SER	616	35.408	18.310	53.240	1.00	59.96
	719	С	SER	616	37.514	20.090	52.612	1.00	61.77
	720	0	SER	616	37.110	20.501	53.703	1.00	63.13
45	721	N	SER	617	38.804	20.026	52.321	1.00	59.65
	722	CA	SER	617	39.796	20.502	53.279	1.00	60.19
	723	СВ	SER	617	39.818	22.033	53.253	1.00	60.71
	724	OG	SER	617	39.578	22.511	51.942	1.00	63.01
50	725	С	SER	617	39.569	20.029	54.724	1.00	59.81
	726	0	SER	617	40.164	20.577	55.654	1.00	63.66
	727	N	ALA	618	38.700	19.036	54.903	1.00	64.87
55	728	CA	ALA	618	38.393	18.444	56.210	1.00	62.57
	729	СВ	ALA	618	39.673	18.327	57.064	1.00	60.83
	730	С	ALA	618	37.277	19.059	57.053	1.00	59.66

TABLE 3 (continued)

				IABL	E 3 ((continued)	SED	IN MOLE	CULAR R	EPL	ACEME	ENT
	ATOMI	C COORDINATE	S FOR THE	SR/TIF2	DEX	X		Y	Z	В	1	MOTA
ļ	ATOM	ATOM TYPE	RESIDUE	#		37.238		817	58.260	1.00	0	60.80
5	731	0	ALA	618		36.375		839	56.451	1.0	0	63.98
- 	732	N	ASN	619	-			411	57.227	1.0	0	61.08
	733	CA	ASN	619	-	35.262		.934	57.042	1.0	0	61.69
10	734	СВ	ASN	619		35.129		.453	55.912	1.0	00	62.23
	735	CG	ASN	619		35.946		.172	54.751	1.0	00	61.72
	736	OD1	ASN	619	-	35.664		3.217	56.239	1.0	00	61.09
	737	ND2	ASN	619		36.980		0.755	56.958	1.0	00	60.70
15	738	С	ASN	619	+	33.907).374	57.157	1.	00	60.32
	739	0	ASN	619		32.856		3.505	56.500	1.	00	59.87
	740	N	LEU	620		33.951	 	7.686	56.237	1.	.00	59.97
20	741	CA	LEU	620		32.767	╄	7.000 8.358	55.270	1	.00	59.52
20	742	СВ	LEU	620)	31.777	-		53.990		.00	61.28
	743	CG	LEU	620		32.162	┼	9.088	52.971		.00	64.28
	744	CD1	LEU	620)	31.041	+	8.989	54.330	+	.00	65.45
25	745	CD2	LEU	62	0	32.459	+-	20.539	55.712	+	.00	61.40
	746	С	LEU	62	0	33.147		16.307	54.720		1.00	61.10
	747	0	LEU	62	0	33.869		16.178	56.407		1.00	58.95
30	748	N	LEU	62	1	32.660	+	15.280	56.050	+	1.00	61.88
30	749	CA	LEU	62	21	32.926	-	13.891	+	-	1.00	63.38
	750	СВ	LEU	62	21	32.394		12.947	57.123	+	1.00	60.60
	751	CG	LEU	62	21	33.031	1	13.049	58.50		1.00	59.8
35	752	CD1	LEU	6:	21	32.383	3	12.036	59.43	-+	1.00	62.7
	753	CD2	LEU	6	21	34.52	4	12.808	58.39		1.00	62.4
	754	C	LEU	6	21	32.28	3	13.540	54.72	-+	1.00	61.3
40	755	0	LEU	6	21	31.09	2	13.751	54.53	-+	1.00	59.0
40	756	N	CYS	E	322	33.07	7	12.972	53.83	-+	1.00	62.4
	757	CA	CYS	6	322	32.58	35	12.609	52.52	+		59.4
	757	СВ	CYS	(322	33.45	53	13.304	51.4		1.00	59.
45	759	SG	CYS	-	622	33.7	15	15.064 			1.00	59.
	760	C	CYS		622	32.5	66	11.094			1.00	
	761	0	CYS		622	33.2	48	10.552			1.00	+
	762	N	PHE		623	31.7	66	10.421			1.00	
50			PHE		623	31.6	45	8.972			1.00	
	763		PHE		623	-30.3	887	8.490			1.00	
	764		PHE	+	623	30.4	461	8.686			1.00	
55	765		PHE	+	623	30.3	338	9.94		906	1.00	<u> </u>
	766				623	30.	688	7.61	2 56.	191	1.00	, , ,

	ATOM	IIC COORDINATI	ES FOR THE	GR/TIF2	DEX MODEL	JSED IN MO	LECULAR	REPLAC	EMENT
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
5	768	CE1	PHE	623	30.443	10.139	57.292	1.00	60.25
	769	CE2	PHE	623	30.795	7.796	57.576	1.00	58.96
	770	CZ	PHE	623	30.673	9.059	58.124	1.00	57.60
10	771	C	PHE	623	31.618	8.532	51.630	1.00	61.75
	772	0	PHE	623	32.502	7.802	51.179	1.00	60.41
	773	Z	ALA	624	30.624	8.995	50.888	1.00	64.49
46	774	CA	ALA	624	30.517	8.644	49.476	1.00	61.68
15	775	СВ	ALA	624	29.429	7.592	49.276	1.00	60.07
	776	C	ALA	624	30.179	9.912	48.700	1.00	60.93
	777	0	ALA	624	30.002	10.981	49.297	1.00	60.98
20	778	N	PRO	625	30.130	9.828	47.355	1.00	62.43
	779	CD	PRO	625	30.706	8.811	46.459	1.00	62.52
	780	CA	PRO	625	29.795	11.035	46.593	1.00	59.45
25	781	СВ	PRO	625	29.949	10.582	45.146	1.00	62.18
25	782	CG	PRO	625	31.089	9.653	45.245	1.00	59.91
	783	С	PRO	625	28.366	11.397	46.928	1.00	62.94
	784	0	PRO	625	28.111	12.382	47.622	1.00	59.36
30	785	N	ASP	626	27.433	10.572	46.468	1.00	58.86
	786	CA	ASP	626	26.036	10.848	46.741	1.00	60.61
	787	СВ	ASP	626	25.126	9.882	45.939	1.00	65.12
35	788	CG	ÁSP	626	25.227	8.421	46.393	1.00	60.28
	789	OD1	ASP	626	25.311	8.160	47.612	1.00	60.31
	790	OD2	ASP	626	25.189	7.526	45.518	1.00	59.51
	791	С	ASP	626	25.680	10.825	48.248	1.00	58.60
40	792	0	ASP	626	24.510	10.636	48.616	1.00	62.03
	793	N	LEU	627	26.668	11.051	49.119	1.00	63.43
	794	CA	LEU	627	26.392	11.020	50.552	1.00	61.63
45	795	СВ	LEU	627	26.175	9.573	51.007	1.00	58.45
	796	CG	LEU	627	25.874	9.407	52.496	1.00	63.46
	797	CD1	LEU	627	24.401	9.669	52.770	1.00	60.41
	798	CD2	LEU	627	26.241	8.013	52.919	1.00	65.05
50	799	С	LEU	627	27.435	11.665	51.459	1.00	61.00
	800	0	LEU	627	28.320	10.988	51.985	1.00	62.27
	801	N	ILE	628	27.301	12.965	51.682	1.00	59.87
55	802	CA	ILE	628	28.230	13.686	52.537	1.00	61.72
	803	СВ	ILE	628	28.796	14.887	51.787	1.00	61.79
	804	CG2	ILE	628	29.848	15.575	52.618	1.00	61.82

TABLE 3 (continued)

				TABLE	= 3 ((continued)	SED	IN MOLE	CULAR R	EPL/	CEMI	ENT
Γ	ATOMIC	COORDINATE	S FOR THE C	R/TIF2	/DEX	MODEL	3ED	Y	z	В	1	MOTA
-	ATOM	ATOM TYPE	RESIDUE	#		^		418	50.461	1.00	-	58.81
5	805	CG1	ILE	628		29.391		542	49.554	1.00	5	61.23
<u> </u>	806	CD1	ILE	628		29.806		162	53.815	1.0	0	59.57
-	807	С	ILE	628		27.541		.611	53.779	1.0	$-\!\!\!\!+\!\!\!\!-$	61.09
10	808	0	ILE	628		26.396			54.951	1.0		60.22
,,	809	N	ILE	629	↓	28.221		.044	56.208	1.0	-+-	60.98
Ì	810	CA	ILE	629	↓	27.638			57.423	1.0	-+-	65.92
	811	СВ	ILE	629	<u> </u>	28.261		3.766	58.647	1.0		62.88
15	812	CG2	ILE	629		28.292		1.681	57.768	1.0	-+	64.60
	813	CG1	ILE	629		27.419	├ ─	2.536	56.571	1.0		63.67
	814	CD1	ILE	629	<u> </u>	26.917	 	1.766	56.319	┼	00	60.46
20	815	С	ILE	629	_	27.852	-	5.989	56.676	—	00	60.38
20	816	0	ILE	629		28.935 	↓	6.452	55.994	 	00	61.49
	817	N	ASN	630		26.797	┼	6.729	+	-	.00	61.95
	818	CA	ASN	630		26.789	+-	8.187	56.015		.00	60.74
25	819	СВ	ASN	630		25.655	┼	8.685	55.149	+-	.00	63.39
	820	CG	ASN	630		24.348	-	18.042	55.516	+-	.00	62.29
	821	OD1	ASN	630		24.011		17.949 	56.688		.00	63.08
20	822	ND2	ASN	630	0	23.603		17.591	54.525		+	63.46
30	823	c	ASN	63	0	26.616		18.786	57.402	\dashv	.00	63.49
	824	0	ASN.	63	0	26.311		18.085	58.369	+	1.00	60.97
	825	N	GLU	63	11	26.794	1	20.103	57.47	-	1.00	59.85
35	826	CA	GLU	63	31	26.658	3	20.840	58.729	-	1.00	62.90
	827	СВ	GLU	63	31	26.743	3	22.349	58.48	-	1.00	60.3
		CG	GLU	63	31	26.78	4	23.166	59.77	-	1.00	60.3
	828	CD	GLU	63	31	25.81	9	24.340	59.76	-+	1.00	62.2
40		OE1	GLU	6:	31	24.68	8	24.184	60.28		1.00	56.7
	830	OE2	GLU	6	31	26.19	1	25.406	59.21	3	1.00	59.9
	831	C	GLU	6	31	25.31	3	20.519	59.36		1.00	61.1
45	832	0	GLU	6	31	25.22	23	20.250		+	1.00	60.5
	833	N	GLN	6	32	24.26	68	20.540		+	1.00	60.6
	834	CA	GLN	€	332	22.9	33	20.248	59.0	46	1.00	
	835	CB	GLN	- 6	632	21.9	30	20.354	57.8	95	1.00	64.
50	836	CG	GLN		632	22.1	21	21.610			1.00	59.
	837	CD	GLN		632	22.0	81	22.917	57.8	41	1.00	
	838	OE1	GLN		632	21.0)68	23.248	58.4	73	1.00	
55	839	NE2	GLN		632	23.1	193	23.663	3 57.8	321	1.00	+
	840	C	GLN		632	22.8	373	18.86	0 59.0	97	1.00	63

	ATON	IIC COORDINATI	ES FOR THE	GR/TIF2	DEX MODEL	USED IN MO	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
5	842	0	GLN	632	22.554	18.741	60.882	1.00	61.37
	843	2	ARG	633	23.213	17.827	58.929	1.00	62.09
	844	CA	ARG	633	23.190	16.444	59.406	1.00	61.43
10	845	СВ	ARG	633	23.762	15.504	58.345	1.00	60.38
	846	CG	ARG	633	22.863	15.388	57.142	1.00	58.68
	847	CD	ARG	633	23.419	14.459	56.102	1.00	63.71
	848	NE	ARG	633	22.589	14.486	54.905	1.00	62.14
15	849	cz	ARG	633	22.885	13.852	53.780	1.00	60.28
	850	NH1	ARG	633	23.996	13.136	53.704	1.00	60.27
	851	NH2	ARG	633	22.075	13.937	52.733	1.00	60.98
20	852	ပ	ARG	633	23.833	16.137	60.753	1.00	64.07
	853	0	ARG	633	23.495	15.117	61.348	1.00	60.29
	854	N	MET	634	24.758	16.970	61.236	1.00	61.53
25	855	CA	MET	634	25.334	16.721	62.560	1.00	60.63
23	856	СВ	MET	634	26.429	17.747	62.859	1.00	60.06
	857	CG	MET	634	27.598	17.688	61.874	1.00	53.30
	858	SD	MET	634	28.604	16.178	62.057	1.00	63.04
30	859	CE	MET	634	30.133	16.562	61.162	1.00	60.95
	860	С	MET	634	24.150	16.834	63.555	1.00	60.65
	861	0	MET	634	23.899	17.897	64.149	1.00	63.14
35	862	N	THR	635	23.420	15.714	63.670	1.00	63.54
00	863	CA	THR	635	22.220	15.523	64.504	1.00	61.73
	864	СВ	THR	635	21.180	14.557	63.819	1.00	59.70
	865	OG1	THR	635	20.987	14.911	62.442	1.00	57.94
40	866	CG2	THR	635	19.829	14.609	64.552	1.00	63.34
	867	С	THR	635	22.593	14.861	65.825	1.00	61.33
	868	0	THR	635	23.570	15.251	66.464	1.00	63.49
45	869	N	LEU	636	21.796	13.851	66.198	1.00	60.18
	870	CA	LEU	636	21.953	13.057	67.420	1.00	61.62
	871	СВ	LEU	636	22.112	11.577	67.095	1.00	60.70
	872	CG	LEU	636	22.867	10.855	68.213	1.00	62.64
50	873	CD1	LEU	636	21.904	10.048	69.070	1.00	63.15
	874	CD2	LEU	636	23.910	9.960	67.603	1.00	60.79
	875	С	LEU	636	23.183	13.478	68.172	1.00	61.59
55	876	0	LEU	636	24.287	13.372	67.626	1.00	60.57
	877	N	PRO	637	23.029	13.907	69.442	1.00	59.83
	878	CD	PRO	637	22.008	13.402	70.379	1.00	57.71

TABLE 3 (continued)

				IABLE	3 (continued)	SED IN MOL	ECULAR R	EPLACEN	MENT
ſ	ATOMIC	C COORDINATE		GR/TIF2/	DEX WODEL O	Y	Z	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	#	X 24.225	14.321	70.182	1.00	61.11
5	879	CA	PRO	637		14.133	71.639	1.00	61.28
F	880	СВ	PRO	637	23.810	12.966	71.555	1.00	61.68
10	881	CG	PRO	637	22.862	13.433	69.793	1.00	61.18
	882	С	PRO	637	25.417	13.928	69.331	1.00	61.45
	883	0	PRO	637	26.457	12.117	69.920	1.00	63.53
	884	N	CYS	638	25.243	11.211	69.588	1.00	61.78
15	885	CA	CYS	638	26.333	9.787	70.065	1.00	62.20
	886	СВ	CYS	638	26.024	9.498	70.917	1.00	60.82
	887	SG	CYS	638	24.449	<u> </u>	68.101	1.00	61.50
20	888	С	CYS	638	26.722	11.209	67.765	1.00	61.11
	889	0	CYS	638	27.863	10.844	67.214	1.00	57.65
	890	N	MET	639	25.816	11.625	65.817	1.00	60.56
	891	CA	MET	639	26.186	11.638	64.924	1.00	66.32
25	892	СВ	MET	639	25.103		63.532	1.00	60.47
	893	CG	MET	639	25.612		62.238	1.00	57.31
	894	SD	MET	639	25.084			1.00	58.45
30	895	CE	MET	639	25.984		61.115		62.26
	896	С	MET	639	27.478		65.637	+	61.35
	897	0	MET	639	28.361		64.857	+	61.78
	898	N	TYR	640	27.589		66.383		61.48
35	899	CA	TYR	640	28.79	7 14.339	66.340		60.05
	900	СВ	TYR	640	28.56	9 15.755	66.872		61.42
	901	CG	TYR	640	29.87	1 16.511	66.956		62.42
40	902	CD1	TYR	64	0 30.53	0 16.927	65.79		61.93
	903	CE1	TYR	64	0 31.80	0 17.472			
	903	CD2	TYR	64	0 30.51	9 16.680	68.17		
45	905	CE2	TYR	64	0 31.78	35 17.222			50.0
		CZ	TYR	64	0 32.42	25 17.612			
	906	OH	TYR	64	10 33.7	11 18.103			
	907	- C	TYR	64	10 29.8	13.646			
50	908		TYR	64	40 31.0	41 13.84	7 67.03		
	909	- N	ASP	6	41 29.3	97 12.83	0 68.10		
	910	CA	ASP	6	41 30.3	49 12.13	6 69.0	+_	
55	911	CB	ASP	6	41 29.6	74 11.66	9 70.3		
	912	CG	ASP	- 6	41 29.1	45 12.82	8 71.1	35 1.0	
	913	OD1	ASP		41 27.9	930 13.09	0 71.0	62 1.0	
	914	OD2	ASP		341 29.9	950 13.49	71.8	24 1.0	0 63.

ATOM ATOM TYPE RESIDUE # X Y Z B ATOM		ATOM	IIC COORDINATE	S FOR THE	GR/TIF2	DEX MODEL	USED IN MOI	LECULAR	REPLAC	EMENT
916 C ASP 641 33.99 10.971 88.313 1.00 60.81 917 O ASP 641 32.047 10.482 66.721 1.00 60.52 918 N GLN 642 30.349 10.542 67.229 1.00 59.76 919 CA GLN 642 30.860 9.456 66.396 1.00 63.97 920 CB GLN 642 29.721 8.763 65.687 1.00 61.51 921 CG GLN 642 29.721 8.763 65.687 1.00 61.51 922 CD GLN 642 27.547 7.724 65.978 1.00 62.69 923 OE1 GLN 642 27.547 7.724 65.978 1.00 62.69 924 NE2 GLN 642 27.547 7.724 65.978 1.00 62.69 925 C GLN 642 27.547 7.724 65.978 1.00 62.81 926 O GLN 642 31.766 10.069 65.359 1.00 62.81 927 N CYS 643 31.91 10.957 64.556 1.00 61.01 928 CA CYS 643 31.91 10.957 64.556 1.00 61.95 929 CB CYS 643 30.977 12.508 62.694 1.00 61.95 930 SG CYS 643 30.977 12.508 62.694 1.00 61.95 931 C CYS 643 30.977 12.508 62.694 1.00 61.95 932 O CYS 643 30.981 12.455 64.071 1.00 61.30 932 O CYS 643 33.081 12.455 64.071 1.00 61.30 932 O CYS 644 32.9662 11.585 61.843 1.00 63.26 933 N LYS 644 32.911 12.923 65.299 1.00 62.81 934 CA LYS 644 33.932 13.730 65.951 1.00 63.83 935 CB LYS 644 33.932 13.730 65.951 1.00 63.83 936 CG LYS 644 33.630 14.666 68.207 1.00 63.83 937 CD LYS 644 33.521 17.239 69.668 1.00 63.83 938 CE LYS 644 33.521 17.239 69.668 1.00 61.72 941 O LYS 644 33.521 17.239 69.668 1.00 61.72 942 N HIS 645 33.635 11.00 67.667 1.00 59.75 944 CB HIS 645 33.635 11.00 67.667 1.00 59.75 945 CG HIS 645 33.635 11.00 63.77 1.00 68.42 947 ND1 HIS 645 33.635 11.00 63.77 1.00 68.42 949 NE2 HIS 645 37.165 11.038 64.037 1.00 68.42		ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
918	5	916	С	ASP	641	30.991	10.971	68.313	1.00	60.81
10 919		917	0	ASP	641	32.047	10.482	68.721	1.00	60.52
920 CB GLN 642 29.721 8.763 65.687 1.00 61.51 921 CG GLN 642 28.690 8.348 66.642 1.00 61.79 922 CD GLN 642 27.547 7.724 65.978 1.00 62.69 923 OE1 GLN 642 27.709 6.684 65.308 1.00 61.01 924 NE2 GLN 642 26.355 8.326 66.145 1.00 60.03 925 C GLN 642 32.954 9.760 65.359 1.00 62.81 926 O GLN 642 32.954 9.760 65.294 1.00 61.01 927 N CYS 643 31.190 10.957 64.556 1.00 60.88 928 CA CYS 643 31.931 11.628 63.504 1.00 61.95 929 CB CYS 643 30.977 12.508 62.694 1.00 61.95 930 SG CYS 643 33.081 12.455 64.071 1.00 63.26 931 C CYS 643 33.081 12.455 64.071 1.00 61.90 932 O CYS 643 33.193 12.652 63.418 1.00 61.90 933 N LYS 644 32.911 12.923 65.291 1.00 62.83 934 CA LYS 644 33.923 13.730 65.951 1.00 58.73 935 CB LYS 644 33.923 13.730 65.951 1.00 58.73 936 CG LYS 644 33.634 13.827 67.449 1.00 63.83 937 CD LYS 644 33.630 14.686 68.207 1.00 59.96 939 NZ LYS 644 35.210 17.239 69.668 1.00 59.57 938 CE LYS 644 35.210 17.239 69.668 1.00 59.57 939 NZ LYS 644 35.201 17.239 69.668 1.00 61.77 942 N HIS 645 35.451 11.864 65.655 1.00 60.28 944 CB HIS 645 36.626 9.943 66.209 1.00 60.28 945 CG HIS 645 37.109 10.100 67.667 1.00 59.96 946 CD2 HIS 645 37.924 10.415 69.675 1.00 58.75 948 CEI HIS 645 36.621 10.023 68.757 1.00 58.75 949 NE2 HIS 645 37.924 10.415 69.675 1.00 58.75		918	Ν	GLN	642	30.349	10.542	67.229	1.00	59.76
921 CG GLN 642 28.690 8.348 66.642 1.00 61.79 922 CD GLN 642 27.547 7.724 65.978 1.00 62.69 923 OE1 GLN 642 27.709 6.684 65.308 1.00 61.01 924 NE2 GLN 642 26.355 8.326 66.145 1.00 60.03 925 C GLN 642 31.766 10.069 65.599 1.00 62.81 926 O GLN 642 32.954 9.760 65.294 1.00 61.10 927 N CYS 643 31.90 10.957 64.556 1.00 61.65 928 CA CYS 643 31.931 11.628 63.504 1.00 61.65 929 CB CYS 643 30.977 12.508 62.694 1.00 61.65 930 SG CYS 643 33.081 12.455 64.071 1.00 61.30 931 C CYS 643 33.081 12.455 64.071 1.00 61.30 932 O CYS 643 33.081 12.455 64.071 1.00 61.30 933 N LYS 644 33.931 11.2682 63.504 1.00 63.26 934 CA LYS 644 33.931 13.730 65.951 1.00 63.83 935 CB LYS 644 33.931 13.730 65.951 1.00 58.73 936 CG LYS 644 33.634 13.827 67.449 1.00 63.83 937 CD LYS 644 34.630 14.686 68.207 1.00 59.57 938 CE LYS 644 34.226 14.891 69.665 1.00 59.57 938 CE LYS 644 35.328 13.182 65.747 1.00 59.22 939 NZ LYS 644 35.328 13.182 65.747 1.00 61.72 940 C LYS 644 35.328 13.182 65.747 1.00 61.72 941 O LYS 644 35.328 13.182 65.747 1.00 61.72 942 N HIS 645 35.451 11.864 65.655 1.00 61.72 944 CB HIS 645 36.656 9.943 66.209 1.00 60.26 945 CG HIS 645 36.626 9.943 66.209 1.00 60.26 946 CD2 HIS 645 37.109 10.100 67.667 1.00 59.75 946 CD2 HIS 645 37.924 10.415 69.675 1.00 58.75 949 NE2 HIS 645 37.924 10.415 69.675 1.00 57.48 949 NE2 HIS 645 37.165 11.038 64.037 1.00 60.24 951 O HIS 645 38.352 11.000 63.77 1.00 62.12	10	919	CA	GLN	642	30.860	9.456	66.396	1.00	63.97
922 CD GLN 642 27.547 7.724 65.978 1.00 62.69 923 OE1 GLN 642 27.709 6.684 65.308 1.00 61.01 924 NE2 GLN 642 26.355 8.326 66.145 1.00 60.03 925 C GLN 642 31.766 10.069 65.359 1.00 62.81 926 O GLN 642 32.954 9.760 65.294 1.00 61.10 927 N CYS 643 31.190 10.957 64.556 1.00 60.88 928 CA CYS 643 31.931 11.628 63.504 1.00 61.65 929 CB CYS 643 30.977 12.508 62.694 1.00 61.95 930 SG CYS 643 30.977 12.508 62.694 1.00 61.95 931 C CYS 643 33.081 12.455 64.071 1.00 61.30 932 O CYS 643 33.081 12.455 64.071 1.00 61.30 932 O CYS 643 34.102 12.652 63.418 1.00 61.90 933 N LYS 644 32.911 12.923 65.299 1.00 62.82 934 CA LYS 644 33.923 13.730 65.951 1.00 58.73 935 CB LYS 644 33.634 13.827 67.449 1.00 63.83 936 CG LYS 644 34.226 14.891 69.665 1.00 59.57 938 CE LYS 644 34.226 14.891 69.665 1.00 59.22 939 NZ LYS 644 35.160 15.902 70.358 1.00 61.66 940 C LYS 644 35.328 13.182 65.747 1.00 61.72 941 O LYS 644 35.328 13.182 65.747 1.00 61.77 942 N HIS 645 35.451 11.864 65.673 1.00 61.77 942 N HIS 645 36.856 9.943 66.209 1.00 60.26 945 CG HIS 645 36.856 9.943 66.209 1.00 60.26 945 CG HIS 645 36.621 10.232 69.805 1.00 58.75 949 NE2 HIS 645 36.621 10.232 69.805 1.00 58.75 949 NE2 HIS 645 37.105 11.038 64.037 1.00 60.84 951 O HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 37.165 11.008 63.727 1.00 62.12		920	СВ	GLN	642	29.721	8.763	65.687	1.00	61.51
923 OE1		921	CG	GLN	642	28.690	8.348	66.642	1.00	61.79
923 OE1 GLN 642 27.709 6.684 65.308 1.00 61.01 924 NE2 GLN 642 26.355 8.326 66.445 1.00 60.03 925 C GLN 642 31.766 10.069 65.359 1.00 62.81 926 O GLN 642 32.954 9.760 65.294 1.00 61.10 927 N CYS 643 31.190 10.957 64.556 1.00 60.88 928 CA CYS 643 31.931 11.628 63.504 1.00 61.65 929 CB CYS 643 30.977 12.508 62.694 1.00 61.65 930 SG CYS 643 29.662 11.585 61.843 1.00 63.26 931 C CYS 643 33.081 12.455 64.071 1.00 61.30 932 O CYS 643 34.102 12.652 63.418 1.00 61.99 933 N LYS 644 32.911 12.923 65.299 1.00 62.82 934 CA LYS 644 33.911 12.923 65.951 1.00 58.73 935 CB LYS 644 33.634 13.827 67.449 1.00 63.83 936 CG LYS 644 34.630 14.886 68.207 1.00 59.96 937 CD LYS 644 34.26 14.891 69.665 1.00 59.57 938 CE LYS 644 35.160 15.902 70.358 1.00 59.52 939 NZ LYS 644 35.201 17.239 69.668 1.00 59.52 939 NZ LYS 644 35.201 17.239 69.668 1.00 61.77 941 O LYS 644 36.296 13.941 65.673 1.00 61.77 942 N HIS 645 35.451 11.864 65.655 1.00 61.77 944 CB HIS 645 36.769 11.262 65.474 1.00 59.96 945 CG HIS 645 36.103 10.041 68.606 1.00 67.77 946 CD2 HIS 645 36.103 10.041 68.606 1.00 59.75 948 CEI HIS 645 36.103 10.041 68.606 1.00 59.75 949 NE2 HIS 645 36.601 10.023 69.805 1.00 59.75 949 NE2 HIS 645 37.102 10.01 63.727 1.00 60.84 951 O HIS 645 37.105 11.038 64.037 1.00 60.84		922	CD	GLN	642	27.547	7.724	65.978	1.00	62.69
925 C GLN 642 31.766 10.069 65.359 1.00 62.81 926 O GLN 642 32.954 9.760 65.294 1.00 61.10 927 N CYS 643 31.190 10.957 64.556 1.00 60.88 928 CA CYS 643 31.931 11.628 63.504 1.00 61.65 929 CB CYS 643 30.977 12.508 62.694 1.00 61.95 930 SG CYS 643 29.662 11.585 61.843 1.00 63.26 931 C CYS 643 33.081 12.455 64.071 1.00 61.30 932 O CYS 643 34.102 12.652 63.418 1.00 61.90 933 N LYS 644 32.911 12.923 65.299 1.00 62.82 934 CA LYS <	15	923	OE1	GLN	642	27.709	6.684	65.308	1.00	61.01
Page Page		924	NE2	GLN	642	26.355	8.326	66.145	1.00	60.03
927 N CYS 643 31.190 10.957 64.556 1.00 60.88 928 CA CYS 643 31.931 11.628 63.504 1.00 61.65 929 CB CYS 643 30.977 12.508 62.694 1.00 61.95 930 SG CYS 643 29.662 11.585 61.843 1.00 63.26 931 C CYS 643 33.081 12.455 64.071 1.00 61.30 932 O CYS 643 34.102 12.652 63.418 1.00 61.90 933 N LYS 644 32.911 12.923 65.299 1.00 62.82 934 CA LYS 644 33.923 13.730 65.951 1.00 58.73 935 CB LYS 644 33.634 13.827 67.449 1.00 63.83 936 CG LYS 644 34.630 14.686 68.207 1.00 59.96 937 CD LYS 644 34.226 14.891 69.665 1.00 59.57 938 CE LYS 644 35.160 15.902 70.358 1.00 59.22 939 NZ LYS 644 35.328 13.182 65.747 1.00 61.72 940 C LYS 644 35.328 13.182 65.747 1.00 61.72 941 O LYS 644 36.296 13.941 65.673 1.00 61.77 942 N HIS 645 35.451 11.864 65.655 1.00 61.41 45 943 CA HIS 645 36.856 9.943 66.209 1.00 60.26 945 CG HIS 645 36.856 9.943 66.209 1.00 60.26 946 CD2 HIS 645 36.856 9.943 66.209 1.00 59.75 948 CE1 HIS 645 36.621 10.232 69.805 1.00 57.48 949 NE2 HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 37.165 11.038 64.037 1.00 60.84		925	C	GLN	642	31.766	10.069	65.359	1.00	62.81
28 CA CYS 643 31.931 11.628 63.504 1.00 61.65 929 CB CYS 643 30.977 12.508 62.694 1.00 61.95 930 SG CYS 643 29.662 11.585 61.843 1.00 63.26 931 C CYS 643 33.081 12.455 64.071 1.00 61.30 932 O CYS 643 34.102 12.652 63.418 1.00 61.90 933 N LYS 644 32.911 12.923 65.299 1.00 62.62 934 CA LYS 644 33.923 13.730 65.991 1.00 58.73 935 CB LYS 644 33.634 13.827 67.449 1.00 63.83 936 CG LYS 644 34.226 14.891 69.665 1.00 59.57 938 CE LYS	20	926	0	GLN	642	32.954	9.760	65.294	1.00	61.10
Section Sect		927	N	CYS	643	31.190	10.957	64.556	1.00	60.88
930 SG CYS 643 29.662 11.585 61.843 1.00 63.26 931 C CYS 643 33.081 12.455 64.071 1.00 61.30 932 O CYS 643 34.102 12.652 63.418 1.00 61.90 933 N LYS 644 32.911 12.923 65.299 1.00 62.82 934 CA LYS 644 33.923 13.730 65.951 1.00 58.73 935 CB LYS 644 33.634 13.827 67.449 1.00 63.83 936 CG LYS 644 34.630 14.686 68.207 1.00 59.96 937 CD LYS 644 34.226 14.891 69.665 1.00 59.57 938 CE LYS 644 35.160 15.902 70.358 1.00 59.22 939 NZ LYS 644 35.328 13.182 65.747 1.00 61.66 940 C LYS 644 36.296 13.941 65.673 1.00 61.77 942 N HIS 645 35.451 11.864 65.655 1.00 61.41 943 CA HIS 645 36.769 11.262 65.474 1.00 59.96 944 CB HIS 645 36.866 9.943 66.209 1.00 60.26 945 CG HIS 645 36.851 10.338 68.346 1.00 59.75 946 CD2 HIS 645 36.621 10.232 69.805 1.00 57.48 949 NE2 HIS 645 37.924 10.415 69.675 1.00 57.48 950 C HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 37.165 11.038 64.037 1.00 60.84		928	CA	CYS	643	31.931	11.628	63.504	1.00	61.65
930 SG CYS 643 29.662 11.585 61.843 1.00 63.26 931 C CYS 643 33.081 12.455 64.071 1.00 61.30 932 O CYS 643 34.102 12.652 63.418 1.00 61.90 933 N LYS 644 32.911 12.923 65.299 1.00 62.82 934 CA LYS 644 33.923 13.730 65.951 1.00 58.73 935 CB LYS 644 33.634 13.827 67.449 1.00 63.83 936 CG LYS 644 34.630 14.686 68.207 1.00 59.96 937 CD LYS 644 34.226 14.891 69.665 1.00 59.57 938 CE LYS 644 35.160 15.902 70.358 1.00 59.22 939 NZ LYS 644 35.201 17.239 69.668 1.00 61.66 940 C LYS 644 35.328 13.182 65.747 1.00 61.72 941 O LYS 644 36.296 13.941 65.673 1.00 61.77 942 N HIS 645 35.451 11.864 65.655 1.00 61.41 943 CA HIS 645 36.769 11.262 65.474 1.00 59.96 944 CB HIS 645 36.856 9.943 66.209 1.00 60.26 945 CG HIS 645 37.109 10.100 67.667 1.00 59.75 946 CD2 HIS 645 36.856 9.943 66.209 1.00 59.75 947 ND1 HIS 645 36.621 10.232 69.805 1.00 58.42 949 NE2 HIS 645 37.924 10.415 69.675 1.00 57.48 950 C HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 37.165 11.038 64.037 1.00 60.84	25	929	СВ	CYS	643	30.977	12.508	62.694	1.00	61.95
932 O CYS 643 34.102 12.652 63.418 1.00 61.90 933 N LYS 644 32.911 12.923 65.299 1.00 62.82 934 CA LYS 644 33.923 13.730 65.951 1.00 58.73 935 CB LYS 644 33.634 13.827 67.449 1.00 63.83 936 CG LYS 644 34.630 14.686 68.207 1.00 59.96 937 CD LYS 644 34.226 14.891 69.665 1.00 59.57 938 CE LYS 644 35.160 15.902 70.358 1.00 59.22 939 NZ LYS 644 35.201 17.239 69.668 1.00 61.66 940 C LYS 644 35.328 13.182 65.747 1.00 61.72 941 O LYS 644 36.296 13.941 65.673 1.00 61.77 942 N HIS 645 35.451 11.864 65.655 1.00 61.41 45 943 CA HIS 645 36.769 11.262 65.474 1.00 59.96 944 CB HIS 645 36.856 9.943 66.209 1.00 60.26 945 CG HIS 645 36.103 10.041 68.606 1.00 59.75 946 CD2 HIS 645 36.103 10.041 68.606 1.00 58.42 50 947 ND1 HIS 645 36.621 10.232 69.805 1.00 58.75 948 CE1 HIS 645 37.924 10.415 69.675 1.00 57.48 950 C HIS 645 37.924 10.415 69.675 1.00 57.48 950 C HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 37.165 11.038 64.037 1.00 60.84	23	930	SG	CYS	643	29.662	11.585	61.843	1.00	63.26
933 N LYS 644 32.911 12.923 65.299 1.00 62.82 934 CA LYS 644 33.923 13.730 65.951 1.00 58.73 935 CB LYS 644 33.634 13.827 67.449 1.00 63.83 936 CG LYS 644 34.630 14.686 68.207 1.00 59.96 937 CD LYS 644 34.226 14.891 69.665 1.00 59.57 938 CE LYS 644 35.160 15.902 70.358 1.00 59.22 939 NZ LYS 644 35.201 17.239 69.668 1.00 61.66 40 940 C LYS 644 35.328 13.182 65.747 1.00 61.72 941 O LYS 644 36.296 13.941 65.673 1.00 61.77 942 N HIS 645 35.451 11.864 65.655 1.00 61.41 45 943 CA HIS 645 36.769 11.262 65.474 1.00 59.96 944 CB HIS 645 36.856 9.943 66.209 1.00 60.26 945 CG HIS 645 37.109 10.100 67.667 1.00 59.75 946 CD2 HIS 645 36.856 9.943 68.346 1.00 58.42 50 947 ND1 HIS 645 36.621 10.232 69.805 1.00 57.48 54 950 C HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 37.165 11.038 64.037 1.00 60.84		931	С	CYS	643	33.081	12.455	64.071	1.00	61.30
934		932	0	CYS	643	34.102	12.652	63.418	1.00	61.90
935 CB LYS 644 33.634 13.827 67.449 1.00 63.83 936 CG LYS 644 34.630 14.686 68.207 1.00 59.96 937 CD LYS 644 34.226 14.891 69.665 1.00 59.57 938 CE LYS 644 35.160 15.902 70.358 1.00 59.22 939 NZ LYS 644 35.201 17.239 69.668 1.00 61.66 940 C LYS 644 35.328 13.182 65.747 1.00 61.72 941 O LYS 644 36.296 13.941 65.673 1.00 61.77 942 N HIS 645 35.451 11.864 65.655 1.00 61.41 943 CA HIS 645 36.769 11.262 65.474 1.00 59.96 944 CB HIS 645 36.856 9.943 66.209 1.00 60.26 945 CG HIS 645 37.109 10.100 67.667 1.00 59.75 946 CD2 HIS 645 36.103 10.041 68.606 1.00 61.77 948 CE1 HIS 645 36.621 10.232 69.805 1.00 58.75 949 NE2 HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 37.165 11.038 64.037 1.00 60.84	30	933	N	LYS	644	32.911	12.923	65.299	1.00	62.82
936		934	CA	LYS	644	33.923	13.730	65.951	1.00	58.73
937 CD LYS 644 34.226 14.891 69.665 1.00 59.57 938 CE LYS 644 35.160 15.902 70.358 1.00 59.22 939 NZ LYS 644 35.201 17.239 69.668 1.00 61.66 40 940 C LYS 644 35.328 13.182 65.747 1.00 61.72 941 O LYS 644 36.296 13.941 65.673 1.00 61.77 942 N HIS 645 35.451 11.864 65.655 1.00 61.41 943 CA HIS 645 36.769 11.262 65.474 1.00 59.96 944 CB HIS 645 36.856 9.943 66.209 1.00 60.26 945 CG HIS 645 37.109 10.100 67.667 1.00 59.75 946 CD2 HIS 645 36.103 10.041 68.606 1.00 61.77 948 CE1 HIS 645 36.621 10.232 69.805 1.00 58.75 949 NE2 HIS 645 37.165 11.038 64.037 1.00 60.84 950 C HIS 645 37.165 11.038 64.037 1.00 60.84		935	СВ	LYS	644	33.634	13.827	67.449	1.00	63.83
937 CD LYS 644 34.226 14.891 69.665 1.00 59.57 938 CE LYS 644 35.160 15.902 70.358 1.00 59.22 939 NZ LYS 644 35.201 17.239 69.668 1.00 61.66 940 C LYS 644 35.328 13.182 65.747 1.00 61.72 941 O LYS 644 36.296 13.941 65.673 1.00 61.77 942 N HIS 645 35.451 11.864 65.655 1.00 61.41 943 CA HIS 645 36.769 11.262 65.474 1.00 59.96 944 CB HIS 645 36.856 9.943 66.209 1.00 60.26 945 CG HIS 645 37.109 10.100 67.667 1.00 59.75 946 CD2 HIS 645 38.254 10.338 68.346 1.00 58.42 50 947 ND1 HIS 645 36.621 10.232 69.805 1.00 57.48 950 C HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 37.165 11.038 64.037 1.00 60.84	35	936	CG	LYS	644	34.630	14.686	68.207	1.00	59.96
939 NZ LYS 644 35.201 17.239 69.668 1.00 61.66 940 C LYS 644 35.328 13.182 65.747 1.00 61.72 941 O LYS 644 36.296 13.941 65.673 1.00 61.77 942 N HIS 645 35.451 11.864 65.655 1.00 61.41 943 CA HIS 645 36.769 11.262 65.474 1.00 59.96 944 CB HIS 645 36.856 9.943 66.209 1.00 60.26 945 CG HIS 645 37.109 10.100 67.667 1.00 59.75 946 CD2 HIS 645 38.254 10.338 68.346 1.00 58.42 50 947 ND1 HIS 645 36.621 10.232 69.805 1.00 61.77 948 CE1 HIS 645 37.924 10.415 69.675 1.00 57.48 950 C HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 37.165 11.038 64.037 1.00 60.84	33	937	CD	LYS	644	34.226	14.891	69.665	1.00	59.57
940 C LYS 644 35.328 13.182 65.747 1.00 61.72 941 O LYS 644 36.296 13.941 65.673 1.00 61.77 942 N HIS 645 35.451 11.864 65.655 1.00 61.41 943 CA HIS 645 36.769 11.262 65.474 1.00 59.96 944 CB HIS 645 36.856 9.943 66.209 1.00 60.26 945 CG HIS 645 37.109 10.100 67.667 1.00 59.75 946 CD2 HIS 645 38.254 10.338 68.346 1.00 58.42 50 947 ND1 HIS 645 36.103 10.041 68.606 1.00 61.77 948 CE1 HIS 645 36.621 10.232 69.805 1.00 58.75 949 NE2 HIS 645 37.165 11.038 64.037 1.00 60.84 950 C HIS 645 37.165 11.038 64.037 1.00 60.84		938	CE	LYS	644	35.160	15.902	70.358	1.00	59.22
941 O LYS 644 36.296 13.941 65.673 1.00 61.77 942 N HIS 645 35.451 11.864 65.655 1.00 61.41 943 CA HIS 645 36.769 11.262 65.474 1.00 59.96 944 CB HIS 645 36.856 9.943 66.209 1.00 60.26 945 CG HIS 645 37.109 10.100 67.667 1.00 59.75 946 CD2 HIS 645 38.254 10.338 68.346 1.00 58.42 947 ND1 HIS 645 36.103 10.041 68.606 1.00 61.77 948 CE1 HIS 645 36.621 10.232 69.805 1.00 58.75 949 NE2 HIS 645 37.924 10.415 69.675 1.00 57.48 950 C HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 38.352 11.000 63.727 1.00 62.12		939	NZ	LYS	644	35.201	17.239	69.668	1.00	61.66
942 N HIS 645 35.451 11.864 65.655 1.00 61.41 943 CA HIS 645 36.769 11.262 65.474 1.00 59.96 944 CB HIS 645 36.856 9.943 66.209 1.00 60.26 945 CG HIS 645 37.109 10.100 67.667 1.00 59.75 946 CD2 HIS 645 38.254 10.338 68.346 1.00 58.42 947 ND1 HIS 645 36.103 10.041 68.606 1.00 61.77 948 CE1 HIS 645 36.621 10.232 69.805 1.00 58.75 949 NE2 HIS 645 37.924 10.415 69.675 1.00 57.48 950 C HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 38.352 11.000 63.727 1.00 62.12	40	940	С	LYS	644	35.328	13.182	65.747	1.00	61.72
943 CA HIS 645 36.769 11.262 65.474 1.00 59.96 944 CB HIS 645 36.856 9.943 66.209 1.00 60.26 945 CG HIS 645 37.109 10.100 67.667 1.00 59.75 946 CD2 HIS 645 38.254 10.338 68.346 1.00 58.42 947 ND1 HIS 645 36.103 10.041 68.606 1.00 61.77 948 CE1 HIS 645 36.621 10.232 69.805 1.00 58.75 949 NE2 HIS 645 37.924 10.415 69.675 1.00 57.48 950 C HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 38.352 11.000 63.727 1.00 62.12		941	0	LYS	644	36.296	13.941	65.673	1.00	61.77
944 CB HIS 645 36.856 9.943 66.209 1.00 60.26 945 CG HIS 645 37.109 10.100 67.667 1.00 59.75 946 CD2 HIS 645 38.254 10.338 68.346 1.00 58.42 947 ND1 HIS 645 36.103 10.041 68.606 1.00 61.77 948 CE1 HIS 645 36.621 10.232 69.805 1.00 58.75 949 NE2 HIS 645 37.924 10.415 69.675 1.00 57.48 950 C HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 38.352 11.000 63.727 1.00 62.12		942	N	HIS	645	35.451	11.864	65.655	1.00	61.41
944 CB HIS 645 36.856 9.943 66.209 1.00 60.26 945 CG HIS 645 37.109 10.100 67.667 1.00 59.75 946 CD2 HIS 645 38.254 10.338 68.346 1.00 58.42 947 ND1 HIS 645 36.103 10.041 68.606 1.00 61.77 948 CE1 HIS 645 36.621 10.232 69.805 1.00 58.75 949 NE2 HIS 645 37.924 10.415 69.675 1.00 57.48 950 C HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 38.352 11.000 63.727 1.00 62.12	45	943	CA	HIS	645	36.769	11.262	65.474	1.00	59.96
946 CD2 HIS 645 38.254 10.338 68.346 1.00 58.42 947 ND1 HIS 645 36.103 10.041 68.606 1.00 61.77 948 CE1 HIS 645 36.621 10.232 69.805 1.00 58.75 949 NE2 HIS 645 37.924 10.415 69.675 1.00 57.48 950 C HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 38.352 11.000 63.727 1.00 62.12		944	СВ	HIS	645	36.856	9.943	66.209	1.00	60.26
50 947 ND1 HIS 645 36.103 10.041 68.606 1.00 61.77 948 CE1 HIS 645 36.621 10.232 69.805 1.00 58.75 949 NE2 HIS 645 37.924 10.415 69.675 1.00 57.48 950 C HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 38.352 11.000 63.727 1.00 62.12		945	CG	HIS	645	37.109	10.100	67.667	1.00	59.75
948 CE1 HIS 645 36.621 10.232 69.805 1.00 58.75 949 NE2 HIS 645 37.924 10.415 69.675 1.00 57.48 950 C HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 38.352 11.000 63.727 1.00 62.12		946	CD2	HIS	645	38.254	10.338	68.346	1.00	58.42
949 NE2 HIS 645 37.924 10.415 69.675 1.00 57.48 950 C HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 38.352 11.000 63.727 1.00 62.12	50	947	ND1	HIS	645	36.103	10.041	68.606	1.00	61.77
950 C HIS 645 37.165 11.038 64.037 1.00 60.84 951 O HIS 645 38.352 11.000 63.727 1.00 62.12		948	CE1	HIS	645	36.621	10.232	69.805	1.00	58.75
951 O HIS 645 38.352 11.000 63.727 1.00 62.12		949	NE2	HIS	645	37.924	10.415	69.675	1.00	57.48
951 O HIS 645 38.352 11.000 63.727 1.00 62.12	55	950	С	HIS	645	37.165	11.038	64.037	1.00	60.84
952 N MET 646 36.172 10.856 63.174 1.00 63.11		951	0	HIS	645	38.352	11.000	63.727	1.00	62.12
	[952	N	MET	646	36.172	10.856	63.174	1.00	63.11

TABLE 3 (continued)

	17014	IC COORDINATE	S FOR THE (3R/TIF2/I	DEX MODEL US	SED IN MOL	ECULAR R	EPLACE	MENT
	ļ	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	MOTA
5	ATOM		MET	646	36.432	10.651	61.759	1.00	62.74
	953	CA	MET	646	35.135	10.211	61.023	1.00	61.50
	954	CB	MET	646	34.686	8.771	61.338	1.00	58.88
	955	CG	MET	646	32.994	8.315	60.876	1.00	61.92
0	956	SD	MET	646	32.426	8.134	62.441	1.00	62.24
	957	CE	MET	646	36.948	11.972	61.168	1.00	63.61
	958	С	MET	646	37.709	11.962	60.197	1.00	63.12
15	959	0	LEU	647	36.543	13.093	61.772	1.00	60.39
	960	N	LEU	647	36.963	14.419	61.325	1.00	61.16
	961	CA	LEU	647	36.105	15.510	61.965	1.00	62.09
	962	CB	 	647	34.661	15.778	61.551	1.00	62.69
20	963	CG	LEU	647	34.144	16.850	62.479	1.00	59.66
	964	CD1	LEU	647	34.553	16.232	60.098	1.00	61.60
	965	CD2	LEU	647	38.400	14.652	61.731	1.00	62.99
25	966	C	LEU	647	39.164	15.329	61.042	1.00	62.41
	967	0	LEU	648	38.750	14.087	62.876	1.00	60.24
	968	N	TYR	648	40.087	14.202	63.431	1.00	60.92
	969	CA	TYR	648	40.190	13.339	64.685	1.00	59.63
30	970	СВ	TYR	648	41.486	13.510	65.428	1.00	60.33
	971	CG	TYR		42.672	12.950	64.952	1.00	62.96
	972	CD1	TYR	648	43.876	13.160	65.609	1.00	61.51
35	973	CE1	TYR	648	41.537	14.280	66.585	1.00	57.67
00	974	CD2	TYR	648	42.735	+	67.252	1.00	62.62
	975	CE2	TYR	648	43.902		66.759	1.00	60.16
	976	CZ	TYR	648	45.089	+	67.426	1.00	64.40
40	977	ОН	TYR	648	+		62.435	1.00	61.32
	978	С	TYR	648			62.099	1.00	62.83
	979	0	TYR	648	11.107		61.971	1.00	65.90
45	980	N	VAL	649	+	 	61.027		60.14
,,,	981	CA	VAL	649			60.642	+	59.02
	982	СВ	VAL	649			61.218		60.92
	983	CG1	VAL	649			59.122		59.70
50	984	CG2	VAL	649		12000	59.814		
	985	С	VAL	649	10.10		59.29		
	986	0	VAL	649			59.39		
55	987	N	SER	650			58.22		
33	988	CA	SER	650			57.91		
	989	СВ	SER	650	39.22	4 14.356	57.91	1.00	

	ATOM	IIC COORDINATE	S FOR THE	GR/TIF2	Z/DEX MODEL	JSED IN MO	LECULAR	REPLAC	EMENT
_	ATOM	ATOM TYPE	RESIDUE	#	х	Υ	Z	В	ATOM
5	990	OG	SER	650	39.069	14.979	56.662	1.00	64.56
	991	O	SER	650	41.344	15.555	58.429	1.00	61.44
	992	0	SER	650	41.800	16.181	57.476	1.00	58.88
10	993	N	SER	651	41.365	16.013	59.677	1.00	59.26
	994	CA	SER	651	41.960	17.298	60.029	1.00	62.47
	995	СВ	SER	651	41.578	17.637	61.483	1.00	58.62
	996	OG	SER	651	42.537	18.441	62.154	1.00	60.41
15	997	C	SER	651	43.480	17.204	59.849	1.00	61.76
	998	0	SER	651	44.087	18.019	59.164	1.00	62.09
	999	N	GLU	652	44.070	16.172	60.441	1.00	60.41
20	1000	CA	GLU	652	45.509	15.927	60.395	1.00	60.48
	1001	СВ	GLU	652	45.837	14.680	61.220	1.00	65.10
	1002	CG	GLU	652	45.488	14.822	62.677	1.00	59.36
25	1003	CD	GLU	652	46.160	16.021	63.289	1.00	62.29
23	1004	OE1	GLU	652	47.399	15.970	63.444	1.00	60.10
	1005	OE2	GLU	652	45.451	17.014	63.592	1.00	60.61
	1006	С	GLU	652	46.100	15.773	59.001	1.00	59.16
30	1007	0	GLU	652	47.238	16.166	58.755	1.00	59.92
	1008	N	LEU	653	45.335	15.180	58.094	1.00	60.01
	1009	CA	LEU	653	45.807	14.984	56.731	1.00	61.61
35	1010	СВ	LEU	653	44.874	14.048	55.960	1.00	64.78
50	1011	CG	LEU	653	44.860	12.600	56.432	1.00	63.03
	1012	CD1	LEU	653	43.723	11.868	55.768	1.00	60.96
	1013	CD2	LEU	653	46.179	11.941	56.122	1.00	62.70
40	1014	С	LEU	653	45.878	16.328	56.037	1.00	60.72
	1015	0	LEU	653	46.805	16.588	55.269	1.00	61.12
	1016	N	HIS	654	44.895	17.182	56.303	1.00	62.78
45	1017	CA	HIS	654	44.894	18.497	55.698	1.00	61.32
	1018	СВ	HIS	654	43.513	19.141	55.805	1.00	63.28
	1019	CG	HIS	654	43.517	20.607	55.518	1.00	61.88
	1020	CD2	HIS	654	43.210	21.296	54.394	1.00	59.76
50	1021	ND1	HIS	654	43.946	21.543	56.436	1.00	58.15
	1022	CE1	HIS	654	43.905	22.744	55.889	1.00	62.74
	1023	NE2	HIS	654	43.463	22.622	54.650	1.00	60.79
55	1024	С	HIS	654	45.935	19.319	56.440	1.00	62.39
	1025	0	HIS	654	46.667	20.112	55.851	1.00	62.10
	1026	N	ARG	655	46.012	19.098	57.743	1.00	62.07

TABLE 3 (continued)

	ATOM	IC COORDINATE	ES FOR THE C		/DEX MODEL U		ECULAR F	REPLACE	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	1027	CA	ARG	655	46.968	19.804	58.572	1.00	62.85
	1028	СВ	ARG	655	46.882	19.277	60.008	1.00	58.45
	1029	CG	ARG	655	47.082	20.314	61.111	1.00	57.53
10	1030	CD	ARG	655	48.522	20.368	61.565	1.00	58.48
10	1031	NE	ARG	655	48.968	19.079	62.082	1.00	61.43
	1032	CZ	ARG	655	50.206	18.831	62.503	1.00	59.99
	1033	NH1	ARG	655	51.125	19.790	62.472	1.00	61.84
15	1034	NH2	ARG	655	50.537	17.625	62.950	1.00	60.75
	1035	С	ARG	655	48.367	19.599	57.999	1.00	60.66
	1036	0	ARG	655	49.086	20.566	57.753	1.00	62.69
20	1037	N	LEU	656	48.735	18.340	57.759	1.00	60.05
	1038	CA	LEU	656	50.060	18.008	57.224	1.00	61.69
	1039	СВ	LEU	656	50.575	16.697	57.832	1.00	60.63
	1040	CG	LEU	656	50.902	16.651	59.330	1.00	60.12
25	1041	CD1	LEU	656	51.059	15.205	59.759	1.00	61.83
	1042	CD2	LEU	656	52.161	17.440	59.632	1.00	61.33
	1043	С	LEU	656	50.164	17.922	55.706	1.00	60.82
30	1044	0	LEU	656	51.187	17.491	55.184	1.00	63.77
	1045	N	GLN	657	49.119	18.321	54.995	1.00	62.25
	1046	CA	GLN	657	49.165	18.291	53.543	1.00	62.13
	1047	СВ	GLN	657	50.018	19.442	53.026	1.00	59.95
35	1048	CG	GLN	657	49.412	20.805	53.219	1.00	60.54
	1049	CD	GLN	657	48.109	20.944	52.480	1.00	59.94
	1050	OE1	GLN	657	47.043	20.616	52.997	1.00	61.59
40	1051	NE2	GLN	657	48.189	21.413	51.250	1.00	59.69
	1052	С	GLN	657	49.756	16.998	53.027	1.00	64.37
	1053	0	GLN	657	50.684	17.013	52.230	1.00	60.80
45	1054	N	VAL	658	49.233	15.876	53.487	1.00	59.26
45	1055	CA	VAL	658	49.730	14.589	53.048	1.00	60.79
	1056	СВ	VAL	658	49.044	13.466	53.856	1.00	61.35
	1057	CG1	VAL	658	49.169	12.130	53.154	1.00	61.79
50	1058	CG2	VAL	658	49.663	13.406	55.240	1.00	61.37
	1059	С	VAL	658	49.494	14.416	51.552	1.00	60.15
	1060	0	VAL	658	48.452	14.798	51.025	1.00	60.95
<i>55</i>	1061	N	SER	659	50.485	13.862	50.869	1.00	63.41
	1062	CA	SER	659	50.399	13.615	49.438	1.00	58.10
	1063	СВ	SER	659	51.797	13.685	48.834	1.00	59.86

	ATOM	IIC COORDINATI	ES FOR THE		2/DEX MODEL		LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	1064	OG	SER	659	52.018	12.643	47.905	1.00	62.03
	1065	С	SER	659	49.777	12.242	49.157	1.00	62.11
	1066	0	SER	659	49.781	11.353	50.015	1.00	61.38
10	1067	N	TYR	660	49.243	12.062	47.956	1.00	60.30
	1068	CA	TYR	660	48.633	10.789	47.601	1.00	61.68
	1069	СВ	TYR	660	48.100	10.860	46.177	1.00	61.85
	1070	CG	TYR	660	47.411	9.605	45.727	1.00	59.67
15	1071	CD1	TYR	660	46.561	8.911	46.581	1.00	63.51
	1072	CE1	TYR	660	45.893	7.783	46.152	1.00	60.60
	1073	CD2	TYR	660	47.576	9.134	44.431	1.00	60.37
20	1074	CE2	TYR	660	46.911	8.011	43.990	1.00	64.13
	1075	CZ	TYR	660	46.072	7.339	44.851	1.00	63.85
	1076	ОН	TYR	660	45.393	6.229	44.402	1.00	62.07
25	1077	С	TYR	660	49.584	9.594	47.749	1.00	59.81
23	1078	0	TYR	660	49.175	8.510	48.165	1.00	64.86
	1079	Ν	GLU	661	50.853	9.789	47.411	1.00	60.25
	1080	CA	GLU	661	51.814	8.703	47.527	1.00	62.48
30	1081	СВ	GLU	661	53.119	9.034	46.788	1.00	61.23
	1082	CG	GLU	661	53.209	8.405	45.395	1.00	63.67
	1083	CD	GLU	661	54.517	8.708	44.672	1.00	65.78
35	1084	OE1	GLU	661	55.602	8.472	45.247	1.00	60.21
	1085	OE2	GLU	661	54.462	9,174	43.517	1.00	60.28
	1086	С	GLU	661	52.096	8.354	48.980	1.00	61.69
	1087	0	GLU	661	52.247	7.183	49.312	1.00	61.32
40	1088	N	GLU	662	52.160	9.348	49.854	1.00	62.68
	1089	CA	GLU	662	52.405	9.048	51.252	1.00	63.61
	1090	СВ	GLU	662	52.605	10.340	52.032	1.00	61.04
45	1091	CG	GLU	662	53.485	11.321	51.309	1.00	61.12
	1092	CD	GLU	662	53.768	12.555	52.117	1.00	62.85
	1093	OE1	GLU	662	52.822	13.164	52.637	1.00	58.86
	1094	OE2	GLU	662	54.945	12.931	52.227	1.00	61.02
50	1095	С	GLU	662	51.193	8.277	51.784	1.00	59.86
	1096	0	GLU	662	51.333	7.263	52.466	1.00	63.08
	1097	N	TYR	663	50.007	8.771	51.436	1.00	61.62
55	1098	CA	TYR	663	48.716	8.186	51.812	1.00	62.54
	1099	СВ	TYR	663	47.601	8.921	51.068	1.00	63.89
	1100	CG	TYR	663	46.266	8.230	51.167	1.00	61.84

TABLE 3 (continued)

	47014	C COORDINATE	S FOR THE (BR/TIF2/I	DEX MODEL US	SED IN MOL	ECULAR RE	PLACE	MENT
		ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	MOTA		TYR	663	45.619	8.109	52.392	1.00	59.60
	1101	CD1 CE1	TYR	663	44.407	7.458	52.498	1.00	58.52
	1102		TYR	663	45.659	7.676	50.043	1.00	58.65
	1103	CD2	TYR	663	44.441	7.019	50.138	1.00	60.83
10	1104	CE2	TYR	663	43.820	6.916	51.368	1.00	62.58
	1105	CZ	TYR	663	42.601	6.287	51.477	1.00	61.21
	1106	ОН	TYR	663	48.565	6.680	51.537	1.00	59.94
15	1107	С	TYR	663	48.090	5.918	52.389	1.00	60.92
	1108	0	LEU	664	48.930	6.274	50.325	1.00	60.84
	1109	N	LEU	664	48.846	4.881	49.908	1.00	61.56
	1110	CA		664	49.261	4.757	48.438	1.00	60.37
20	1111	СВ	LEU	664	48.363	5.402	47.382	1.00	64.33
	1112	CG	 	664	49.036	5.350	46.023	1.00	64.49
	1113	CD1	LEU	664	47.032	4.687	47.351	1.00	59.02
25	1114	CD2	LEU	664	49.744	4.001	50.777	1.00	60.21
20	1115	С	LEU	664	49.369	2.889	51.161	1.00	61.89
	1116	0	LEU	665	50.933	4.519	51.071	1.00	61.72
	1117	N	CYS	665	51.915	3.823	51.882	1.00	58.12
30	1118	CA	CYS		53.272	4.508	51.737	1.00	62.31
	1119	СВ	CYS	665	54.006	4.295	50.123	1.00	59.12
	1120	SG	CYS	665	51.516	3.771	53.348	1.00	59.84
35	1121	С	CYS	665	51.726	2.766	54.024	1.00	61.71
55	1122	0	CYS	665	50.953	4.862	53.845	1.00	63.34
	1123	N	MET	666	50.524	4.910	55.228	1.00	58.59
	1124	CA	MET	666	50.199	 	55.627	1.00	59.71
40	1125	СВ	MET	666	51.408		55.867	1.00	62.55
	1126	CG	MET	666			56.036	1.00	61.95
	1127	SD	MET	666	70.040		57.659	1.00	64.15
45	1128	CE	MET	666	10.000		55.437	1.00	63.86
40	1129	С	MET	666	10.146		56.495		59.48
	1130	0	MET	666			54.421	-	58.08
	1131	N	LYS	667			54.482		61.17
50	1132	CA	LYS	667			53.305		
	1133	СВ	LYS	667	15.04		53.338		
	1134	CG	LYS	667			52.532		
55	1135	CD	LYS	667			51.063		
22	1136	CE	LYS	667			50.39		
	1137	NZ	LYS	667	7 44.13	4 2.158	50.390	1.00	

	ATOM	IIC COORDINATE	S FOR THE	GR/TIF2	Z/DEX MODEL I	JSED IN MOI	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
5	1138	C	LYS	667	47.592	1.658	54.468	1.00	63.84
	1139	0	LYS	667	46.867	0.838	55.011	1.00	61.95
	1140	Z	THR	668	48.705	1.318	53.838	1.00	63.32
10	1141	CA	THR	668	49.114	-0.069	53.801	1.00	61.88
	1142	СВ	THR	668	50.080	-0.304	52.657	1.00	60.27
	1143	OG1	THR	668	49.463	0.124	51.439	1.00	62.16
	1144	CG2	THR	668	50.417	-1.775	52.547	1.00	58.76
15	1145	C	THR	668	49.761	-0.413	55.137	1.00	62.68
	1146	0	THR	668	49.707	-1.559	55.591	1.00	62.61
	1147	N	LEU	669	50.350	0.597	55.773	1.00	62.26
20	1148	CA	LEU	669	50.995	0.427	57.068	1.00	61.58
	1149	СВ	LEU	669	51.888	1.626	57.378	1.00	62.50
	1150	CG	LEU	669	53.265	1.643	56.712	1.00	57.56
25	1151	CD1	LEU	669	54.041	2.847	57.205	1.00	60.97
25	1152	CD2	LEU	669	54.012	0.355	57.037	1.00	59.22
	1153	С	LEU	669	49.987	0.249	58.194	1.00	61.00
	1154	0	LEU	669	50.354	-0.119	59.310	1.00	61.30
30	1155	N	LEU	670	48.718	0.520	57.911	1.00	62.31
	1156	CA	LEU	670	47.686	0.365	58.925	1.00	62.17
	1157	СВ	LEU	670	46.511	1.305	58.638	1.00	64.37
35	1158	CG	LEU	670	46.784	2.784	58.942	1.00	60.87
33	1159	CD1	LEU	670	45.516	3.597	58.766	1.00	63.22
	1160	CD2	LEU	670	47.293	2.922	60.365	1.00	58.85
	1161	С	LEU	670	47.227	-1.090	58.976	1.00	63.40
40	1162	0	LEU	670	46.846	-1.599	60.026	1.00	63.58
	1163	N	LEU	671	47.281	-1.750	57.827	1.00	61.89
	1164	CA	LEU	671	46.913	-3.150	57.716	1.00	60.74
45	1165	СВ	LEU	671	46.946	-3.574	56.249	1.00	62.54
	1166	CG	LEU	671	46.501	-4.997	55.921	1.00	62.48
	1167	CD1	LEU	671	45.015	-5.180	56.251	1.00	63.63
	1168	CD2	LEU	671	46.768	-5.260	54.449	1.00	63.52
50	1169	С	LEU	671	47.967	-3.928	58.500	1.00	61.46
	1170	0	LEU	671	47.688	-4.971	59.110	1.00	60.81
	1171	N	LEU	672	49.182	-3.388	58.479	1.00	62.75
<i>5</i> 5	1172	CA	LEU	672	50.320	-3.974	59.163	1.00	62.92
	1173	СВ	LEU	672	51.562	-3.883	58.280	1.00	60.56
	1174	CG	LEU	672	51.399	-4.164	56.786	1.00	62.90

TABLE 3 (continued)

				TABLE	3 (continued)	SED IN MOL	FCULAR R	EPLACE	MENT
	ATOMI	C COORDINATE	S FOR THE C	R/TIF2/	DEX WODEL O	Y	z	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	#	X 50 770	-4.394	56.183	1.00	60.90
5	1175	CD1	LEU	672	52.776	-5.373	56.558	1.00	61.77
	1176	CD2	LEU	672	50.519	-3.232	60.468	1.00	61.14
	1177	С	LEU	672	50.576		60.883	1.00	63.28
10	1178	0	LEU	672	51.722	-3.064	61.116	1.00	62.86
70	1179	N	SER	673	49.502	-2.795	62.368	1.00	62.27
	1180	CA	SER	673	49.616	-2.056	62.405	1.00	61.42
	1181	СВ	SER	673	48.582	-0.910	62.404	1.00	59.49
15	1182	OG	SER	673	47.241	-1.383	63.616	1.00	63.23
	1183	С	SER	673	49.468	-2.925	64.664	1.00	59.71
	1184	0	SER	673	50.026	-2.608		1.00	61.92
20	1185	N	SER	674	48.720	-4.017	63.517	1.00	60.38
20	1186	CA	SER	674	48.538	-4.875	64.680	1.00	62.70
	1187	СВ	SER	674	47.225	-4.506	65.401	1.00	56.91
	1188	OG	SER	674	46.204		64.495		61.52
25	1189	C	SER	674	48.590	-6.373	64.405	1.00	61.47
	1190	0	SER	674	48.122	-6.849	63.377	1.00	64.16
	1191	N	VAL	675	49.192	-7.101	65.336		61.09
	1192	CA	VAL	675	49.305	-8.556	65.256	+	
30	1193	СВ	VAL	675	50.722	-9.025	64.816		62.88
	<u> </u>	CG1	VAL	675	50.962	-8.679	63.362		59.26
	1194	CG2	VAL	675	51.787	-8.394	65.710		61.45
35	1195	C	VAL	675	49.039	9 -9.116	66.652		62.60
	1196	0	VAL	675	49.26	5 -8.433	67.656	3 1.00	61.24
	1197	N N	PRO	670	3 48.55	0 -10.363	66.73	5 1.00	59.77
	1198	CD	PRO	67	6 48.21	9 -11.265	65.61	6 1.00	57.51
40	1199	CA	PRO	67	10.00	0 -11.001	68.02		
	1200	CB	PRO	67	40.00	26 -12.452	67.62	3 1.00	
	1201		PRO	67	47.00	32 -12.317	66.28	3 1.00	
45	1202	CG	PRO	67		24 -10.847	68.99	1.00	
	1203		PRO	67		85 -10.758	68.57	76 1.00	
	1204		LYS		77 49.1	17 -10.818	70.29	0 1.00	
	1205		LYS		77 50.1	54 -10.673	71.3	14 1.00	60.5
50	1206		LYS		77 49.5	10 -10.646	72.7	02 1.00	
	1207				77 50.4		3 73.8	53 1.0	58.6
	1208		LYS		77 49.8		9 75.1	43 1.0	0 62.0
55	1209		LYS		77 50.9		9 76.2	41 1.0	0 63.
	1210		LYS		50.3		7 77.4	91 1.0	0 60.49.
	1211	NZ	LYS		33.0				

	ATOM	IIC COORDINATE	S FOR THE	3R/TIF2	DEX MODEL	USED IN MOI	LECULAR I	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	1212	С	LYS	677	51.162	-11.828	71.222	1.00	61.45
	1213	0	LYS	677	52.102	-11.917	72.023	1.00	59.62
	1214	N	ASP	678	50.955	-12.698	70.231	1.00	59.93
10	1215	CA	ASP	678	51.809	-13.862	69.994	1.00	60.14
	1216	СВ	ASP	678	51.041	-15.126	70.367	1.00	60.09
	1217	CG	ASP	678	50.390	-15.023	71.735	1.00	61.43
	1218	OD1	ASP	678	51.110	-14.940	72.749	1.00	62.42
15	1219	OD2	ASP	678	49.151	-15.016	71.797	1.00	60.77
	1220	С	ASP	678	52.273	-13.947	68.535	1.00	63.29
	1221	0	ASP	678	52.771	-14.981	68.090	1.00	59.36
20	1222	N	GLY	679	52.098	-12.854	67.797	1.00	59.82
	1223	CA	GLY	679	52.512	-12.823	66.408	1.00	58.14
	1224	С	GLY	679	51.639	-13.640	65.481	1.00	58.50
05	1225	0	GLY	679	50.600	-14.179	65.870	1.00	58.88
25	1226	N	LEU	680	52.082	-13.723	64.237	1.00	62.95
	1227	CA	LEU	680	51.375	-14.459	63.209	1.00	63.18
	1228	СВ	LEU	680	51.233	-13.564	61.981	1.00	65.44
30	1229	CG	LEU	680	50.941	-12.101	62.324	1.00	60.24
	1230	CD1	LEU	680	50.994	-11.260	61.069	1.00	60.21
	1231	CD2	LEU	680	49.582	-11.979	62.974	1.00	60.11
35	1232	С	LEU	680	52.221	-15.685	62.881	1.00	63.74
33	1233	0	LEU	680	53.430	-15.689	63.110	1.00	62.10
	1234	N	LYS	681	51.598	-16.729	62.354	1.00	60.36
	1235	CA	LYS	681	52.348	-17.922	62.000	1.00	60.78
40	1236	СВ	LYS	681	51.406	-18.969	61.418	1.00	60.11
	1237	CG	LYS	681	50.209	-19.253	62.289	1.00	61.43
	1238	CD	LYS	681	49.295	-20.221	61.579	1.00	63.30
45	1239	CE	LYS	681	47.908	-20.186	62.160	1.00	61.77
	1240	NZ	LYS	681	46.983	-20.886	61.244	1.00	62.13
	1241	С	LYS	681	53.429	-17.551	60.973	1.00	61.58
	1242	0	LYS	681	54.401	-18.286	60.784	1.00	63.01
50	1243	N	SER	682	53.250	-16.410	60.309	1.00	60.35
	1244	CA	SER	682	54.211	-15.932	59.314	1.00	62.36
	1245	СВ	SER	682	53.515	-15.613	57.989	1.00	61.24
55	1246	OG	SER	682	53.066	-16.788	57.346	1.00	63.18
	1247	С	SER	682	54.885	-14.674	59.826	1.00	64.68
	1248	0	SER	682	55.289	-13.814	59.051	1.00	59.53

TABLE 3 (continued)

				TABL	_E3 ((continued)		IN MOLE	CULAR R	EPL/	CEME	ENT
Г	ATOM	IC COORDINATE	S FOR THE G	R/TIF	2/DEX	MODEL U	SED	Y	7	В	7	TOM
}	ATOM	ATOM TYPE	RESIDUE	#					61.140	1.00		64.92
5	1249	N	GLN	683	<u> </u>		-14.		61.754	1.00		62.89
	1250	CA	GLN	683		55.614	-13.		63.240	1.0	\dashv	63.65
	1251	СВ	GLN	683		55.862	-13.		64.059	1.0	-+-	64.38
	1252	CG	GLN	683		56.282		.452	63.954	1.0		64.26
10	1253	CD	GLN	683		55.318		.274	63.476	1.0	-+	63.72
	1254	OE1	GLN	683		55.688		.205	64.407	1.0		61.52
	1255	NE2	GLN	683	3	54.085	├	.465	61.069	1.0		60.69
15	1256	С	GLN	683	3	56.893 	<u> </u>	2.938	60.669	1.0		62.35
	1257	0	GLN	683	3	56.981 	└	1.782	60.913	┼	00	60.59
	1258	N	GLU	684	4	57.880		3.811		+	00	61.72
	1259	CA	GLU	68	4	59.119	↓	3.378	60.279	┼	.00	61.83
20	1260	СВ	GLU	68	4	60.039	4	4.567	59.970	+-	.00	61.93
	1261	CG	GLU	68	34	60.015	—	5.013	58.511		.00	60.75
	<u> </u>	CD	GLU	68	34	61.383	1-1	5.418	57.979	+-	.00	60.52
25	1262	OE1	GLU	68	34	61.457		15.813	56.792			58.72
	1263	OE2	GLU	68	84	62.375		15.342	58.744	+	.00	60.55
	1264	C	GLU	6	84	58.801	-	12.623	58.993	+	1.00	63.55
	1265	0	GLU	6	84	59.196	} -	11.474	58.823		1.00	63.6
30	1266	N	LEU	6	85	58.064	1	13.263	58.100	+	1.00	57.8
	1267		LEU	6	85	57.710	<u>.</u>	12.649	56.83	-+	1.00	59.6
	1268		LEU	6	885	56.92	1 .	-13.649	55.98		1.00	63.2
35	1269		LEU	- 6	385	57.16	5	-13.734	54.47	6	1.00	59.4
	1270		LEU		685	55.83	9	-14.063	53.82	9	1.00	
	1271		LEU		685	57.69	9	-12.434	53.90	2	1.00	62.2
	1272	·	LEU		685	56.88	32	-11.370	57.04	10	1.00	62.3
40	1273		LEU		685	56.95	53	-10.432	56.24	12	1.00	61.
	1274		PHE		686	56.09	95	-11.326	58.1	09	1.00	60.
	127		PHE		686	55.2	72	-10.149	58.3	74	1.00	61.
45	127		PHE		686	54.4	09	-10.365	59.6	09	1.00	64.
	127		PHE		686	53.6	63	-9.143	60.0	23	1.00	61
	127		PHE		686	52.6	39	-8.650	59.2	36	1.00	+
	127			+	686	54.0	008	-8.460	61.1	78	1.00	
50	128		PHE		686	51.9	71	-7.493	59.5	592	1.00	
	128		PHE		686	53.3		-7.30	4 61.	543	1.00	
	12		PHE		686	52.	326	-6.81	в 60.	749	1.00	
55	12	83 CZ	PHE		686		109	-8.89	7 58.	596	1.00	59
33	12	84 C	PHE		├ ──		247	-8.05	1 57.	714	1.0	6
	12	85 O	PHE		686							

TABLE 3 (continued)

	ATOM	IIC COORDINATI	ES FOR THE (E 3 (continued D/DEX MODEL I	<u> </u>	ECULAR I	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	1286	N	ASP	687	56.651	-8.791	59.802	1.00	64.05
	1287	CA	ASP	687	57.483	-7.668	60.195	1.00	60.85
	1288	СВ	ASP	687	58.102	-7.960	61.567	1.00	56.84
10	1289	CG	ASP	687	59.033	-9.162	61.536	1.00	64.67
	1290	OD1	ASP	687	59.482	-9.610	62.622	1.00	60.21
	1291	OD2	ASP	687	59.322	-9.655	60.414	1.00	63.02
	1292	С	ASP	687	58.573	-7.383	59.142	1.00	61.59
15	1293	0	ASP	687	59.262	-6.358	59.214	1.00	61.60
	1294	N	GLU	688	58.725	-8.289	58.172	1.00	60.82
	1295	CA	GLU	688	59.700	-8.104	57.098	1.00	59.68
20	1296	СВ	GLU	688	60.246	-9.433	56.604	1.00	62.54
	1297	CG	GLU	688	61.434	-9.252	55.674	1.00	60.98
	1298	CD	GLU	688	61.479	-10.289	54.569	1.00	58.58
25	1299	OE1	GLU	688	61.323	-9.898	53.387	1.00	61.73
25	1300	OE2	GLU	688	61.663	-11.490	54.882	1.00	60.24
	1301	С	GLU	688	59.031	-7.387	55.931	1.00	60.97
	1302	0	GLU	688	59.684	-6.719	55.137	1.00	62.27
30	1303	N	ILE	689	57.721	-7.552	55.809	1.00	61.23
	1304	CA	ILE	689	56.979	-6.864	54.767	1.00	61.00
	1305	СВ	ILE	689	55.641	-7.592	54.451	1.00	63.41
35	1306	CG2	ILE	689	54.655	-6.650	53.759	1.00	59.25
	1307	CG1	ILE	689	55.916	-8.808	53.568	1.00	57.54
	1308	CD1	ILE	689	54.667	-9.526	53.121	1.00	62.29
	1309	С	ILE	689	56.704	-5.479	55.345	1.00	58.97
40	1310	0	ILE	689	56.778	-4.473	54.645	1.00	61.54
	1311	N	ARG	690	56.411	-5.439	56.641	1.00	60.16
	1312	. CA	ARG	690	56.135	-4.185	57.319	1.00	61.28
45	1313	СВ	ARG	690	55.855	-4.434	58.799	1.00	60.29
	1314	CG	ARG	690	55.548	-3.170	59.582	1.00	60.74
	1315	CD	ARG	690	54.679	-3.480	60.770	1.00	56.91
	1316	NE	ARG	690	54.190	-2.280	61.437	1.00	66.99
50	1317	CZ	ARG	690	54.967	-1.378	62.026	1.00	64.04
	1318	NH1	ARG	690	56.283	-1.533	62.029	1.00	58.19
	1319	NH2	ARG	690	54.427	-0.327	62.623	1.00	62.52
55	1320	С	ARG	690	57.274	-3.179	57.177	1.00	57.93
	1321	0	ARG	690	57.037	-1.977	57.067	1.00	59.25
	1322	N	MET	691	58.512	-3.660	57.190	1.00	58.75

		C COORDINATE		TABLE	3 (C	ontinued)	ED I	N MOLE	CULAR R	EPL	ACEM	ENT
Γ	ATOMI		S FOR THE	3R/11F2/	DEX I	X		Y	Z	В	T_/	MOTA
	ATOM	ATOM TYPE	RESIDUE	#		59.664	-2.7	783	57.048	1.0	0	64.96
,	1323	CA	MET	691		60.928	-3.5	542	57.450	1.0	00	61.53
ļ ļ	1324	СВ	MET	691		62.247	-3.0	016	56.886	1.0	00	59.40
	1325	CG	MET	691		62.942		201	55.673	1.0	00	61.45
10	1326	SD	MET	691		63.225		669	56.764	1.0	00	60.93
Ť	1327	CE	MET	691	 	59.775		254	55.621	1.0	00	61.68
	1328	С	MET	691	 			.099	55.405	1.0	00	63.95
	1329	0	MET	691	 	60.130		.097	54.646	1.	.00	59.70
15	1330	N	THR	692	—	59.459		.698	53.243	1.	.00	60.57
	1331	CA	THR	692	 	59.519		3.855	52.323	1	.00	62.51
	1332	СВ	THR	692	┼	59.105		5.046	52,714	1	.00	59.90
20	1333	OG1	THR	692		59.796	-	3.523	50.879	1	.00	60.93
20	1334	CG2	THR	692		59.437	 	1.523	52.962	+	1.00	60.46
	1335	С	THR	692		58.586	╁	0.655	52.143		1.00	59.04
	1336	0	THR	692		58.890	4		53.634		1.00	61.66
25	1337	N	TYR	693		57.439	+-	1.516	53.46	$-\!\!\!\!+\!\!\!\!-$	1.00	60.32
	1338	CA	TYR	693	3	56.459	+-	-0.458	53.55	_	1.00	59.81
	1339	СВ	TYR	693	3	55.045	+-	-1.033	52.30	-+-	1.00	61.04
00	1340	CG	TYR	693	3	54.665 		-1.802	51.07		1.00	63.46
30	1341	CD1	TYR	69	3	54.552	+	-1.153	49.90	_	1.00	65.96
	1342	CE1	TYR	69	3	54.292	-	-1.865	52.33	-+	1.00	59.82
	1343	CD2	TYR	69	3	54.497 		-3.185	51.17	-+	1.00	63.54
35	1344	CE2	TYR	69	3	54.236	6 	-3.906	49.9	_	1.00	62.96
	1345	CZ	TYR	69	93	54.13	7	-3.242		-+	1.00	59.68
	1346	OH	TYR	69	93	53.90	1	-3.961	48.8		1.00	58.9
	1347		TYR	6	93	56.66	3	0.664	54.4		1.00	59.4
40			TYR	6	93	55.87	7	1.600	54.5		1.00	63.1
	1348		ILE	6	94	57.72	20	0.555	55.2		1.00	
	1349		ILE	6	94	58.05	52	1.598	56.1		1.00	
45	1350	CB.	ILE	(94	58.73	34	1.042			1.00	
	135		ILE	- 6	594	59.6	52	2.101		077	1.00	-
	135	001	ILE		694	57.6	68	0.580		457 	 -	<u></u>
	135		ILE		694	58.2	16	0.168		793	1.00	
50	135		ILE		694	59.0	28	2.478		430	1.00	
	135	<u> </u>	ILE		694	58.9	989	3.70		.541		
	135		LYS		695	59.8	390	1.83		.643	+	
55	13		LYS		695	60.8	869	2.53		.821		
	13		LYS		695	61.	987	1.60	7 53	3.364	1.0	00 61

	ATOM	IIC COORDINATI	ES FOR THE (DEX MODEL U		LECULAR I	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
5	1360	CG	LYS	695	62.768	0.892	54.438	1.00	60.54
	1361	CD	LYS	695	63.876	0.081	53.767	1.00	63.44
	1362	CE	LYS	695	64.516	-0.947	54.699	1.00	61.61
10	1363	NZ	LYS	695	65.330	-1.962	53.942	1.00	62.18
	1364	С	LYS	695	60.206	3.074	52.559	1.00	61.44
	1365	0	LYS	695	60.706	4.010	51.946	1.00	61.23
	1366	N	GLU	696	59.101	2.452	52.156	1.00	61.65
15	1367	CA	GLU	696	58.381	2.862	50.961	1.00	60.70
	1368	СВ	GLU	696	57.289	1.851	50.635	1.00	62.74
	1369	CG	GLU	696	56.806	1.901	49.200	1.00	63.74
20	1370	CD	GLU	696	57.927	1.725	48.187	1.00	63.24
	1371	OE1	GLU	696	58.903	1.002	48.494	1.00	61.23
	1372	OE2	GLU	696	57.824	2.299	47.079	1.00	62.98
05	1373	С	GLU	696	57.775	4.215	51.260	1.00	61.27
25	1374	0	GLU	696	57.594	5.051	50.366	1.00	61.63
	1375	N	LEU	697	57.468	4.414	52.540	1.00	59.99
	1376	CA	LEU	697	56.912	5.668	53.022	1.00	63.89
30	1377	СВ	LEU	697	56.314	5.493	54.418	1.00	58.18
	1378	CG	LEU	697	55.831	6.810	55.016	1.00	62.97
	1379	CD1	LEU	697	54.754	7.370	54.127	1.00	59.80
35	1380	CD2	LEU	697	55.319	6.606	56.425	1.00	59.24
00	1381	С	LEU	697	58.029	6.709	53.072	1.00	61.66
	1382	0	LEU	697	57.807	7.871	52.774	1.00	60.35
	1383	N	GLY	698	59.228	6.283	53.460	1.00	59.57
40	1384	CA	GLY	698	60.348	7.198	53.523	1.00	61.15
	1385	С	GLY	698	60.570	7.770	52.146	1.00	60.91
	1386	0	GLY	698	60.748	8.977	51.988	1.00	61.15
45	1387	N	LYS	699	60.557	6.880	51.156	1.00	60.97
	1388	CA	LYS	699	60.729	7.219	49.745	1.00	60.90
	1389	СВ	LYS	699	60.526	5.983	48.875	1.00	66.06
	1390	CG	LYS	699	61.729	5.098	48.621	1.00	61.25
50	1391	CD	LYS	699	61.290	3.930	47.737	1.00	59.41
	1392	CE	LYS	699	62.371	3.498	46.765	1.00	61.62
	1393	NZ	LYS	699	63.066	2.246	47.178	1.00	60.87
55	1394	С	LYS	699	59.710	8.256	49.289	1.00	58.54
	1395	0	LYS	699	60.019	9.127	48.482	1.00	59.98
	1396	N	ALA	700	58.483	8.128	49.777	1.00	63.02

							- 4 17	u = 3	(cor	itinued)								NIT	7	
				DINATES	FOR	THE GE	I AL	F2/DI	EX MC	DDEL US	ED	IN M	OLEC	ULA	RRE	PLAC	JEME T A	TOM	-	
Γ	ATC	MIC (COOR	DINATES	FOR RESI	VIE T	#	T	X			Y		Z	+	1.00	+	61.8	2	
1	ATOM	- 1 .	TOM	TYPE	HEOIL		700			7.423		.048		49.40	-	1.00	+-	65.2	6	
5	1397		CA		ALA		700		5	6.094		3.540		49.92		1.00	+	60.3	16	
Ī	1398		CB		ALA		70	-+		7.712	10).422		49.97		1.00		62.7	77	
Ţ	1399		С		ALA		70	-+		57.545	1	1.434	_	49.2		1.00		65.	16	
10	1400		0		AL		70			58.137	1	0.446	_	51.2	+	1.00		64.	84	
10	1401		N		ILE		<u> </u>	01		58.471	1	1.683		51.9		1.0		61	.36	
	1402	2	C	A	ILE		-	01		58.931	1	11.406	3	53.3		1.0	-+-	63	.03	
	1403	3	С	В	ILI		4-	01		59.509	1	12.67	0	53.		1.0		61	.61	
15	140	4	C	G2	IL.		4-	701	-	57.761		10.87	4		151				0.05	
	140	5	-	G1	IL.		-	701		58.167	T	10.36	4	┸	495	1.0	+		1.64	
	140	6	(CD1	ــــــــــــــــــــــــــــــــــــــ	.E 	4-	701 701	-	59.574	1	12.45	55		.195	1-	00		8.62	
00	140)7	1	C		.E		701 701	+-	59.597		13.6	83		.228	 	00		3.95	
20	140			0	1	LE 	+			60.500	-	11.7	49	50).555 	╁	.00		57.69	١
		.09		N		/AL	4	702	+	61.56	0	12.4	38	49	9.831 		.00		63.59	1
	<u> </u>	10	1	CA		VAL 	-	702	+	62.81	_+	11.5	532	سلد	9.665		.00		59.75	1
25	<u> </u>	411	1	СВ		VAL 	-	702		63.31	-+	11.0	093	5	1.024		1.00		64.22	1
	 	412	1	CG1		VAL	_	702		62.49		10.	330	4	18.819		1.00		61.62	4
	<u> </u>	413	1	CG2		VAL		702		61.0		12.	907		48.46	6	1.00	-	61.64	Н
	-	414	1	С		VAL		702		61.3		14	.014		48.03	1	1.00		61.58	_
30		1415	-	0		VAL		70		60.2		12	.065		47.81	4	1.00		60.75	
	<u> </u>	1416	+	N		LYS		70		59.6		12	2.387	\top	46.51	6	1.00			
		1417	+	CA		LYS		70			475	+	1.474		46.2	01	1.00	2	56.80	_
35	\ -	1418		СВ		LYS			03		419	+	2.161		45.2	93	1.0	9	59.9	_
	}	1419		CG		LYS			03		.967		1.815	5	45.6	60	1.0	0	60.6	
	}	1420	-	CD		LYS			03		.962		2.84	В	45.0	88	1.0	00	57.1	_
	ŀ	1421		CE		LYS			703		5.07		13.06	4	43.	605	1.0	00	62.6	_
40	}	1422		NZ		LYS			703		9.16		13.81	4	46.	392		00	61.	_
		1423		C		LYS			703		9.45		14.47		45.	404	1.	00	58.	_
		142	+	0		LYS			703		8.39		14.2		47	.367	1	.00	63	
4:	5	142	+	N		AR	G		704	l	7.8		15.6		47	.321	1	.00	60	_
		142		CA		AP	G		704		56.3		15.5		47	.661	1	.00	62	
		144		СВ		AF	RG		704	1	56.0 56.0		15.0		49	9.033	3	1.00	6	
			28	CG		AF	₹G		704		54.7		15.		4	9.54	В	1.00		0.
:	50		26 29	CD		Al	₹G		704			931		417	5	0.70	2	1.00		2.
				NE		A	RG		704					200	- 5	1.20)4	1.00		30
		<u> </u>	130	CZ		A	RG		704			983		.213	-+:	50.64	10	1.00		61
	55	<u> </u>	431	NH		A	RG		704			.784		.965	-	52.2	63	1.00		63
		1	432	- NI		-	ARG	i	704	4 \	54	.225	٠.,							

	ATOM	IIC COORDINATE	S FOR THE	GR/TIF2	DEX MODEL	USED IN MO	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	1434	С	ARG	704	58.520	16.607	48.249	1.00	63.14
	1435	0	ARG	704	58.732	17.772	47.885	1.00	60.41
	1436	N .	GLU	705	58.842	16.155	49.458	1.00	60.89
10	1437	CA	GLU	705	59.528	17.018	50.412	1.00	62.58
	1438	СВ	GLU	705	59.814	16.288	51.730	1.00	60.91
	1439	CG	GLU	705	58.605	16.091	52.605	1.00	62.30
	1440	CD	GLU	705	57.847	17.384	52.817	1.00	64.22
15	1441	OE1	GLU	705	56.684	17.460	52.347	1.00	58.55
	1442	OE2	GLU	705	58.419	18.317	53.440	1.00	61.42
	1443	С	GLU	705	60.848	17.456	49.801	1.00	62.10
20	1444	0	GLU	705	61.869	16.761	49.939	1.00	59.78
	1445	N	GLY	706	60.823	18.597	49.115	1.00	60.22
	1446	CA	GLY	706	62.036	19.100	48.500	1.00	61.75
25	1447	С	GLY	706	63.159	19.239	49.518	1.00	60.44
25	1448	0	GLY	706	64.168	18.519	49.450	1.00	61.54
	1449	N	ASN	707	62.974	20.148	50.477	1.00	61.06
	1450	CA	ASN	707	63.989	20.387	51.491	1.00	60.61
30	1451	СВ	ASN	707	63.561	21.505	52.443	1.00	63.06
	1452	CG	ASN	707	64.731	22.048	53.258	1.00	60.50
	1453	OD1	ASN	707	64.663	23.152	53.803	1.00	61.18
35	1454	ND2	ASN	707	65.815	21.269	53.342	1.00	61.75
55	1455	С	ASN	707	64.355	19.143	52.281	1.00	61.56
	1456	0	ASN	707	63.685	18.767	53.250	1.00	63.56
	1457	N	SER	708	65.446	18.525	51.837	1.00	62.02
40	1458	CA	SER	708	66.024	17.326	52.427	1.00	60.22
	1459	СВ	SER	708	67.379	17.070	51.737	1.00	58.91
	1460	OG	SER	708	68.112	15.998	52.305	1.00	62.15
45	1461	С	SER	708	66.200	17.500	53.945	1.00	63.60
	1462	0	SER	708	66.754	16.635	54.624	1.00	60.95
	1463	N	SER	709	65.713	18.619	54.474	1.00	61.83
	1464	CA	SER	709	65.826	18.922	55.894	1.00	61.35
50	1465	СВ	SER	709	66.279	20.373	56.065	1.00	65.65
	1466	OG	SER	709	67.479	20.615	55.332	1.00	62.14
i	1467	С	SER	709	64.516	18.684	56.641	1.00	59.54
55	1468	0	SER =	709	64.497	18.583	57.874	1.00	61.29
	1469	N	GLN	710	63.416	18.586	55.900	1.00	62.57
	1470	CA	GLN	710	62.131	18.347	56.533	1.00	61.59

TABLE 3 (continued)

				TABLE 3	(continued)	ED IN MOLE	CULAR RE	PLACEN	MENT
	ATOMI	C COORDINATE			X	Y	Z	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	710	61.087	19.333	56.007	1.00	58.05
	1471	CB	GLN	710	61.469	20.792	56.249	1.00	62.98
	1472	CG	GLN	710		21.776		1.00	59.84
	1473	CD	GLN	710	60.344	21.882		1.00	60.97
)	1474	OE1	GLN	710	59.363	22.502		1.00	65.14
	1475	NE2	GLN	710	60.481	16.917	56.297	1.00	58.31
	1476	С	GLN	710	61.683	16.586	56.466	1.00	60.42
	1477	0	GLN	710	60.512	16.063	55.916	1.00	61.21
5	1478	N	ASN	711	62.625		55.673	1.00	63.02
	1479	CA	ASN	711	62.309	14.666	54.819	1.00	60.49
	1480	СВ	ASN	711	63.407	14.033	├ ────┼	1.00	65.80
o	1481	CG	ASN	711	63.508	14.675	53.449	1.00	63.88
	1482	OD1	ASN	711	62.565	15.303	52.977	+	60.91
	1483	ND2	ASN	711	64.646	14.507	52.801	1.00	63.26
	1484	С	ASN	711	62.090	13.879	56.974	1.00	58.14
25	1485	0	ASN	711	61.055	13.238	57.155	1.00	
	1486	N	TRP	712	63.054	13.930	57.883	1.00	61.93
	1487	CA	TRP	712	62.915	13.234	59.148	1.00	59.49
00	1488	СВ	TRP	712	64.259	13.185	59.833	1.00	62.44
30	1489	CG	TRP	712	65.169	12.333	59.088	1.00	62.60
	1490	CD2	TRP	712	65.485	10.980	59.388	1.00	61.74
		CE2	TRP	712	66.331	10.516	58.366	1.00	62.04
35	1491	CE3	TRP	712	65.130	10.108	60.426	1.00	60.92
	1492	CD1	TRP	712	65.815	12.637	57.934	1.00	57.10
	1493	NE1	TRP	712	66.517	11.552	57.490	1.00	63.63
	1494	CZ2	TRP	712	66.832	9.215	58.345	1.00	63.94
40	1495		TRP	712	65.625	8.817	60.407	1.00	65.64
	1496	CZ3	TRP	712	66.470	8.381	59.370	1.00	62.08
	1497	CH2	TRP	712	61.903	13.954	60.021	1.00	59.14
45	1498	- C	TRP	712	61.372	13.410	60.996	1.00	59.32
	1499	0	GLN	713	61.637	+	59.640	1.00	60.0
	1500	N	GLN	713	60.705	+	60.345	1.00	63.9
	1501	CA		713	60.853	-+	59.793	1.00	59.1
50	1502	СВ	GLN	713			60.802	1.00	61.7
	1503	CG	GLN	713	 		60.838	1.00	60.2
	1504	CD	GLN				59.824	1.00	58.2
55	1505		GLN	713			61.998		65.6
55	1506	NE2	GLN	713			60.10		57.8
	1507	С	GLN	713	59.29	13.322			_

	ATOM	IIC COORDINATI	ES FOR THE (E 3 (continued		LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	АТОМ
5	1508	0	GLN	713	58.472	15.465	61.018	1.00	63.21
	1509	N	ARG	714	59.051	15.125	58.864	1.00	62.15
	1510	CA	ARG	714	57.758	14.626	58.424	1.00	57.88
10	1511	СВ	ARG	714	57.668	14.782	56.907	1.00	65.30
	1512	CG	ARG	714	56.272	14.971	56.382	1.00	62.96
	1513	CD	ARG	714	56.301	15.439	54.940	1.00	62.68
	1514	NE	ARG	714	55.029	15.200	54.267	1.00	62.08
15	1515	CZ	ARG	714	53.899	15.828	54.561	1.00	62.26
	1516	NH1	ARG	714	53.877	16.741	55.515	1.00	59.12
	1517	NH2	ARG	714	52.788	15.535	53.906	1.00	57.33
20	1518	C	ARG	714	57.573	13.171	58.831	1.00	60.95
	1519	0	ARG	714	56.531	12.787	59.368	1.00	60.00
	1520	N	PHE	715	58.594	12.363	58.571	1.00	59.93
25	1521	CA	PHE	715	58.551	10.960	58.940	1.00	61.38
23	1522	СВ	PHE	715	59.934	10.328	58.799	1.00	60.45
	1523	CG	PHE	715	59.921	8.834	58.843	1.00	63.37
	1524	CD1	PHE	715	59.016	8.119	58.063	1.00	61.57
30	1525	CD2	PHE	715	60.824	8.136	59.636	1.00	59.17
	1526	CE1	PHE	715	59.005	6.732	58.067	1.00	60.07
	1527	CE2	PHE	715	60.824	6.740	59.648	1.00	58.03
35	1528	CZ	PHE	715	59.904	6.038	58.856	1.00	61.29
	1529	С	PHE	715	58.118	10.923	60.394	1.00	61.16
	1530	0	PHE	715	57.409	10.017	60.821	1.00	61.52
	1531	N	TYR	716	58.541	11.925	61.153	1.00	62.10
40	1532	CA	TYR	716	58.178	11.989	62.550	1.00	61.74
	1533	СВ	TYR	716	58.962	13.092	63.256	1.00	60.58
	1534	CG	TYR	716	58.729	13.117	64.748	1.00	60.86
45	1535	CD1	TYR	716	59.376	12.213	65.586	1.00	58.32
	1536	CE1	TYR	716	59.159	12.226	66.952	1.00	59.67
	1537	CD2	TYR	716	57.852	14.032	65.318	1.00	60.64
	1538	CE2	TYR	716	57.625	14.052	66.679	1.00	63.17
50	1539	CZ	TYR	716	58.283	13.152	67.493	1.00	58.37
	1540	ОН	TYR	716	58.090	13.194	68.856	1.00	59.28
	1541	С	TYR	716	56.688	12.280	62.662	1.00	61.28
55	1542	0	TYR	716	55.952	11.578	63.356	1.00	61.70
	1543	N	GLN	717	56.249	13.318	61.967	1.00	62.49
	1544	CA	GLN	717	54.858	13.716	62.009	1.00	63.77

TABLE 3 (continued)

		C COORDINATE	TO FOR THE (D/TIE2/	3 (continued)	SED IN MOL	ECULAR R	EPLACE	MENT
	ATOMI			#	X	Y	Z	В	ATOM
_	ATOM	ATOM TYPE	RESIDUE	717	54.694	15.061	61.304	1.00	63.18
5	1545	СВ	GLN	717	55.613	16.126	61.888	1.00	62.93
	1546	CG	GLN	717	55.418	17.512	61.288	1.00	62.21
	1547	CD	GLN	717	55.545	17.709	60.073	1.00	59.68
10	1548	OE1	GLN	717	55.125	18.487	62.147	1.00	58.70
	1549	NE2	GLN		53.910	12.674	61.426	1.00	61.09
	1550	C	GLN	717	52.907	12.338	62.064	1.00	61.62
	1551	0	GLN	717	54.228	12.154	60.237	1.00	62.25
15	1552	N	LEU	718	53.384	11.144	59.589	1.00	60.93
	1553	CA	LEU	718	53.880	10.833	58.166	1.00	61.18
	1554	СВ	LEU	718	ļ	11.915	57.078	1.00	60.69
20	1555	CG	LEU	718	53.823	11.353	55.764	1.00	59.94
	1556	CD1	LEU	718	54.322	12.419	56.916	1.00	64.72
	1557	CD2	LEU	718	52.411	9.847	60.391	1.00	61.41
	1558	С	LEU	718	53.308	9.847	60.530	1.00	62.27
25	1559	0	LEU	718	52.241	 	60.911	1.00	62.60
	1560	N	THR	719	54.441	9.387	61.706	1.00	61.77
	1561	CA	THR	719	54.469	8.162	62.001	1.00	63.38
30	1562	СВ	THR	719	55.902	7.717	62.715	1.00	59.25
	1563	OG1	THR	719	56.590	8.749	60.716	1.00	64.41
	1564	CG2	THR	719	56.626	+		+	64.18
	1565	С	THR	719	53.744	 	63.034	+	59.43
35	1566	0	THR	719	53.365		63.702		60.48
	1567	N	LYS	720	53.562		63.421	+	60.21
	1568	CA	LYS	720	52.864		64.652	 	63.61
40	1569	СВ	LYS	720	53.414		65.281		60.3
	1570	CG	LYS	720	52.661		66.532	-+	57.4
	1571	CD	LYS	720	52.340		67.448		57.3
	1572	CE	LYS	720	51.254		68.472	_+	+
45	1573	NZ	LYS	720	50.62		69.03		
	1574	С	LYS	720	51.36		64.34		+
	1575	0	LYS	720	50.52		65.24		+
50	1576	N	LEU	72	1 51.03	0 10.110	63.06		
	1577	CA	LEU	72	1 49.63	4 10.162	62.65		+
	1578	СВ	LEU	72	1 49.50	5 10.724	61.23	- 	
	1579		LEU	72	1 48.26	11.548			
55	1580		LEU	72	1 48.21	9 11.751	59.36		
	1581		LEU	72	1 47.00	10.851	61.32	27 1.00	62.

TABLE 3 (continued)

	ATOM	IIC COORDINATI	ES FOR THE (E 3 (continued D/DEX MODEL (.	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	АТОМ
5	1582	С	LEU	721	49.163	8.696	62.703	1.00	61.87
	1583	0	LEU	721	48.041	8.405	63.117	1.00	62.35
	1584	N	LEU	722	50.052	7.788	62.282	1.00	62.99
10	1585	CA	LEU	722	49.813	6.339	62.250	1.00	58.34
	1586	СВ	LEU	722	50.988	5.635	61.570	1.00	59.92
	1587	CG	LEU	722	51.194	5.933	60.084	1.00	60.23
	1588	CD1	LEU	722	52.500	5.333	59.636	1.00	58.33
15	1589	CD2	LEU	722	50.050	5.373	59.264	1.00	59.18
	1590	С	LEU	722	49.624	5.754	63.651	1.00	62.26
	1591	0	LEU	722	48.827	4.835	63.860	1.00	60.80
20	1592	N	ASP	723	50.389	6.282	64.597	1.00	60.29
	1593	CA	ASP	723	50.321	5.870	65.989	1.00	61.98
	1594	СВ	ASP	723	51.409	6.583	66.780	1.00	62.74
05	1595	CG	ASP	723	52.652	5.759	66.935	1.00	62.09
25	1596	OD1	ASP	723	52.840	4.814	66.146	1.00	62.64
	1597	OD2	ASP	723	53.445	6.066	67.848	1.00	60.13
	1598	С	ASP	723	48.970	6.275	66.554	1.00	61.71
30	1599	0	ASP	723	48.281	5.496	67.202	1.00	61.64
	1600	N	SER	724	48.612	7.524	66.305	1.00	62.20
	1601	CA	SER	724	47.362	8.090	66.784	1.00	61.12
35	1602	СВ	SER	724	47.329	9.579	66.449	1.00	63.08
55	1603	OG	SER	724	47.513	9.767	65.057	1.00	61.03
	1604	С	SER	724	46.098	7.419	66.246	1.00	59.27
	1605	0	SER	724	45.015	7.664	66.772	1.00	61.79
40	1606	N	MET	725	46.229	6.594	65.203	1.00	60.63
	1607	CA	MET	725	45.077	5.893	64.615	1.00	60.05
	1608	СВ	MET	725	45.425	5.228	63.272	1.00	60.16
45	1609	CG	MET	725	45.452	6.151	62.055	1.00	66.62
	1610	SD	MET	725	43.992	7.180	61.838	1.00	58.95
	1611 1	CE	MET	725	42.904	6.134	61.000	1.00	61.36
	1612	С	MET	725	44.573	4.833	65.576	1.00	64.25
50	1613	0	MET	725	43.382	4.543	65.627	1.00	59.89
	1614	N	HIS	726	45.492	4.251	66.334	1.00	62.22
	1615	CA	HIS	726	45.122	3.249	67.313	1.00	60.86
55	1616	СВ	HIS	726	46.356	2.746	68.064	1.00	58.90
	1617	CG	HIS	726	47.183	1.772	67.286	1.00	59.73
	1618	CD2	HIS	726	48.518	1.706	67.070	1.00	60.15

TABLE 3 (continued)

				TABL	E3 (continued)	SED II	MOLE	CULAR R	EPL	ACEME	NT
Г	ATOM	IC COORDINATE	S FOR THE C	R/TIF	2/DEX	MODEL US	Y	,	7	В	A	ТОМ
-	ATOM	ATOM TYPE	RESIDUE	#					66.646	1.0		61.70
5	1619	ND1	HIS	726	<u> </u>	46.635	0.6		66.069	1.0	0	61.05
-	1620	CE1	HIS	726		47.598	-0.0		66.311	1.0		60.76
}	1621	NE2	HIS	726		48.750	0.5		68.291	1.0		61.09
	1622	С	HIS	726		44.141		380	68.650	1.0		60.43
10	1623	0	HIS	726		43.146		268	68.714	1.0		61.91
,		N	GLU	727		44.425		109		├	00	58.28
	1624	CA	GLU	727	,	43.548		825	69.642	├ ─	00	63.92
15		СВ	GLU	727	,	44.218		109	70.159	┼	00	59.43
	1626	CG	GLU	727	7	43.254		.102	70.846	┼	.00	61.79
	1627	CD	GLU	72	7	43.073	9.	.413	70.053		.00	60.96
	1628	OE1	GLU	72	7	44.079	10	.150	69.874	4-		63.98
20	1629	OE2	GLU	72	7	41.931	9	.707	69.607	+-	.00	60.97
	1630		GLU	72	7	42.220	6	5.187	68.993	+-	.00	58.72
	1631	C	GLU	72	27	41.163	6	3.009	69.596		1.00	60.50
25	1632	0	VAL	72	28	42.263	1	6.699	67.769	4	1.00	
23	1633	N N	VAL	- 7 2	28	41.022		7.073	67.105		1.00	60.74
	1634	CA	VAL		28	41.289		7.922	65.828	3	1.00	58.90
	1635	CB			28	42.719	,	7.804	65.41	5	1.00	58.73
30	1636	CG1	VAL		28	40.382	2	7.494	64.70	3	1.00	65.58
	1637	CG2	VAL		28	40.192	2	5.842	66.77	3	1.00	59.9°
	1638	С	VAL		728	38.97		5.844	66.93	1	1.00	61.1
	1639	0	VAL			40.87		4.792	66.32	26	1.00	61.7
35	1640	N	VAL	—∔-	729	40.24		3.522	65.97	74	1.00	62.3
	1641	CA	VAL		729	41.27	-+	2.578	65.3	32	1.00	60.2
	1642	СВ	VAL		729	40.94	-+	1.131	65.6	06	1.00	61.5
40	1643	3 CG1	VAL		729	41.29		2.815	63.8	66	1.00	60.0
	164	4 CG2	VAL		729	39.5		2.830	67.1	73	1.00	61.6
	164	5 C	VAL		729	38.7		1.971	67.0	009	1.00	59.
	164		VAL		729		-+	3.199			1.00	59.
45	164	7 N	GLU		730	39.9		2.601		 558	1.00	60.
	164	CA	GLU		730	39.4				755	1.00	59
	164		GLU		730	40.3		2.812 2.014	·	942	1.00	66
50	165		GLU		730	39.8				167	1.00	-
50	16		GLU	j	730		681	2.348		.039	1.00	-
	\	52 - OE1	GLU	J	730		912	2.54		.263	+	-
	ļ	53 OE2		j	730		081	2.40		.804		
55	<u> </u>	54 C	GLI	J	730		.085	3.29			+	-
	10	655 0	GL	Ū.	730	37	.031	2.66	0 69	.869		

	ATOM	IIC COORDINATI	ES FOR THE	GR/TIF	2/DEX MODEL	USED IN MO	LECULAR	REPLAC	EMENT
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
5	1656	N	ASN	731	38.154	4.606	69.941	1.00	61.01
	1657	CA	ASN	731	36.967	5.409	70.157	1.00	60.41
	1658	СВ	ASN	731	37.356	6.880	70.212	1.00	62.98
10	1659	CG	ASN	731	37.593	7.333	71.613	1.00	59.54
	1660	OD1	ASN	731	36.657	7.385	72.410	1.00	58.59
	1661	ND2	ASN	731	38.841	7.638	71.945	1.00	58.18
	1662	C	ASN	731	35.917	5.165	69.081	1.00	61.30
15	1663	0	ASN	731	34.720	5.345	69.317	1.00	60.95
	1664	N	LEU	732	36.364	4.750	67.902	1.00	60.39
	1665	CA	LEU	732	35.442	4.475	66.820	1.00	61.55
20	1666	СВ	LEU	732	36.141	4.550	65.471	1.00	59.24
	1667	CG	LEU	732	36.184	5.931	64.813	1.00	64.00
	1668	CD1	LEU	732	36.712	5.787	63.374	1.00	62.90
05	1669	CD2	LEU	732	34.771	6.561	64.818	1.00	60.26
25	1670	С	LEU	732	34.841	3.108	66.997	1.00	60.27
	1671	0	LEU	732	33.648	2.922	66.774	1.00	61.79
	1672	N	LEU	733	35.673	2.148	67.399	1.00	58.72
30	1673	CA	LEU	733	35.214	0.770	67.612	1.00	60.63
	1674	СВ	LEU	733	36.376	-0.153	67.969	1.00	60.85
	1675	CG	LEU	733	37.087	-0.798	66.782	1.00	56.83
35	1676	CD1	LEU	733	38.344	-1.474	67.266	1.00	63.66
00	1677	CD2	LEU	733	36.159	-1.786	66.083	1.00	56.09
	1678	С	LEU	733	34.158	0.663	68.696	1.00	60.11
	1679	0	LEU	733	33.092	0.098	68.458	1.00	60.20
40	1680	N	ASN	734	34.456	1.192	69.883	1.00	64.88
	1681	CA	ASN	734	33.503	1.148	70.988	1.00	60.87
	1682	СВ	ASN	734	33.874	2.130	72.099	1.00	64.42
45	1683	CG	ASN	734	35.076	1.683	72.896	1.00	60.85
	1684	OD1	ASN	734	35.499	0.526	72.817	1.00	60.20
	1685	ND2	ASN	734	35.627	2.597	73.686	1.00	62.04
	1686	С	ASN	734	32.157	1.544	70.455	1.00	59.98
50	1687	0	ASN	734	31.209	0.755	70.478	1.00	59.10
	1688	N	TYR	735	32.085	2.778	69.969	1.00	61.85
	1689	CA	TYR	735	30.844	3.294	69.421	1.00	63.27
55	1690	СВ	TYR	735	31.075	4.640	68.743	1.00	60.68
	1691	CG	TYR	735	29.867	5.515	68.853	1.00	62.56
	1692	CD1	TYR	735	28.777	5.328	67.975	1.00	60.84

TABLE 3 (continued)

						TAE	3LE 3	(con	tinued)				III AR F	REPL	ACE	MENT	
			ORDINATES	FOR	THE GF	₹/TI	F2/DE	X MC	DEL US	SED	IN MO	T	7	B	$\neg \top$	ATO	1
	ATOM	IIC COC	HUINATE	RESI	DUE	#	\top	Х				+-	8.168	1.0	00	60	.10
	ATOM		M TYPE	TYF		735	5	27	7.586	6.	.030			1.0	-+	62	.93
5	1693		E1	TYI		73	5	2	9.722		.421		9.889		00	62	2.59
Ī	1694		;D2	TY		73	5	2	8.543	7	.127		70.084	4-	.00	6	0.99
[1695		CE2			73	5	2	7.483	6	3.916		69.221	-	.00	5	6.15
10	1696		CZ	TY		73	-+	2	26.305		7.561		69.418				7.10
	1697		ОН	<u> </u>	/R		35	(30.261		2.306	\perp	68.418	+-,	.00		0.19
,	1698		C			├	35		29.052		2.158		68.321				32.53
	1699		0	↓	YR VS	├ ─	36		31.126	T	1.621		67.682	-	1.00		60.21
15	1700		N		YS	+-	36		30.673		0.644		66.70		1.00		62.29
	1701		CA		YS	-	736		31.842	1	0.208		65.81		1.00		62.77
	1702		СВ		YS				31.461	+	-1.142	2	64.66		1.00		62.99
20	1703	1	SG		CYS		736 736		30.063		-0.572	2	67.39	9	1.00		61.76
20	1704		С		CYS 				28.85	7	-0.79	5	67.29	90	1.00	<u> </u>	
	1705		0		CYS	+	736	-	30.89	_	-1.34	6	68.1	11	1.00		60.76
	1706		N		PHE 	-	737	 	30.43	-+	-2.54	16	68.8	35	1.00	0	61.61
25	1707	-+-	CA		PHE	_	737	+-	31.45		-3.01	13	69.8	89	1.0	0	65.67
	1708		СВ		PHE	_	737		32.71	-	-3.5	75	69.3	321	1.0	0	61.17
	170		CG		PHE	_	737	-	32.7	+	-4.1	73	68.0)69	1.0	00	62.43
	171		CD1		PHE		737		33.9		-3.5		70.	049	1.0	00	62.09
30	171		CD2		PHE		737		33.9		-4.7	704	67.	544	1.	00	60.80
	171		CE1		PHE		737		35.0			042	69	536	1.	00	61.51
	17		CE2		PHE		737	_+-	35.0		·	638	68	.279	1	.00	59.32
35	ļ	14	CZ		PHE		73	7				266	69	.581	1	.00	60.98
	 		C		PHE		73	7		151	4	.865	69	.312	1	.00	61.98
		15	0		PHE		73	37		103	+	.356).542	2 1	.00	64.21
	 	716	N		GLN		73	38		.274	+	.934	-+-	1.399	9 .	1.00	63.22
40	 	717	CA		GLN		73	38		.183).301		2.17		1.00	64.29
		718	СВ		GLN		7	38		3.613		0.896		3.02		1.00	59.0
	 	719	CG		GLN	I	7	38		7.542				72.92		1.00	61.2
45	<u> </u>	720	CD		GLN	1	7	'38		7.55! 		2.392		71.91	-+	1.00	60.8
		1721 	OE1		GLN	١	7	738	2	7.11		2.96		73.9		1.00	57.1
		1722	NE2		GLI		-	738	2	8.08		3.04		70.6	+	1.00	61.
		1723			GL	N	_	738	2	26.91		-0.64		71.0		1.00	61.
50	, [1724	C		GL		-	738	2	25.82	27	-1.01				1.00	61.
		1725	0		TH		-+	739	1	27.0	56	0.0		69.4		1.00	60
	Γ	1726	N				-+	739	1	25.8	93	0.3		68.6		1.00	55
	[1727	CA			-IR	+	739	1	26.2	808	1.2			542	1.00	
:	55	1728	CE			HR		739	1	26.2	212	2.6	49	68	047	1.00	
		1729	00	31		117											

	ATOM	IIC COORDINATI	S FOR THE	GR/TIF2	DEX MODEL	USED IN MOI	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
5	1730	CG2	THR	739	25.193	1.200	66.444	1.00	62.24
	1731	С	THR	739	25.330	-0.969	68.085	1.00	62.53
	1732	0	THR	739	24.122	-1.107	67.898	1.00	60.85
10	1733	N	PHE	740	26.221	-1.906	67.784	1.00	61.25
	1734	CA	PHE	740	25.859	-3.197	67.215	1.00	59.86
	1735	СВ	PHE	740	27.110	-3.854	66.641	1.00	60.28
	1736	CG	PHE	740	26.937	-5.301	66.311	1.00	63.82
15	1737	CD1	PHE	740	26.434	-5.690	65.079	1.00	62.86
	1738	CD2	PHE	740	. 27.297	-6.278	67.236	1.00	61.71
	1739	CE1	PHE	740	26.295	-7.042	64.763	1.00	60.86
20	1740	CE2	PHE	740	27.165	-7.623	66.938	1.00	60.83
	1741	CZ	PHE	740	26.663	-8.013	65.696	1.00	60.77
	1742	O	PHE	740	25.200	-4.140	68.238	1.00	60.76
25	1743	0	PHE	740	24.420	-5.028	67.866	1.00	60.72
25	1744	N	LEU	741	25.538	-3.965	69.515	1.00	62.82
	1745	CA	LEU	741	24.976	-4.793	70.584	1.00	61.57
	1746	СВ	LEU	741	25.991	-5.012	71.708	1.00	59.14
30	1747	CG	LEU	741	27.187	-5.904	71.404	1.00	62.48
	1748	CD1	LEU	741	28.083	-5.956	72.627	1.00	58.13
	1749	CD2	LEU	741	26.708	-7.294	71.021	1.00	60.31
35	1750	С	LEU	741	23.770	-4.087	71.165	1.00	60.19
00	1751	0	LEU	741	23.577	-4.055	72.389	1.00	59.64
	1752	N	ASP	742	22.960	-3.508	70.290	1.00	61.92
	1753	CA	ASP	742	21.789	-2.797	70.762	1.00	60.22
40	1754	СВ	ASP	742	22.185	-1.372	71.179	1.00	61.70
	1755	CG	ASP	742	21.021	-0.598	71.793	1.00	60.82
i	1756	OD1	ASP	742	21.258	0.438	72.473	1.00	60.77
45	1757	OD2	ASP	742	19.863	-1.028	71.587	1.00	61.09
	1758	С	ASP	742	20.689	-2.769	69.710	1.00	61.90
	1759	0	ASP	742	20.530	-1.782	68.995	1.00	61.23
	1760	N	LYS	743	19.934	-3.864	69.623	1.00	63.29
50	1761	CA	LYS	743	18.833	-3.975	68.664	1.00	62.18
	1762	СВ	LYS	743	18.045	-5.273	68.888	1.00	63.55
	1763	CG	LYS	743	18.054	-6.243	67.705	1.00	62.77
55	1764	CD	LYS	743	17.301	-5.691	66.489	1.00	59.38
	1765	CE	LYS	743	17.291	-6.724	65.349	1.00	62.80
	1766	NZ	LYS	743	16.446	-6.335	64.166	1.00	57.45

				TABLE	3 (continued)	SED IN MOL	ECULAR RE	PLACEN	MENT
	ATOMIC	C COORDINATE				Y Y	Z	В	ATOM
Ì	ATOM	ATOM TYPE	RESIDUE	#	X	-2.786	68.822	1.00	62.93
	1767	С	LYS	743	17.899	-2.788	67.833	1.00	58.22
	1768	0	LYS	743	17.407	-2.383	70.069	1.00	61.23
	1769	N	THR	744	17.669		70.400	1.00	61.48
	1770	CA	THR	744	16.808	-1.247 -0.715	71.802	1.00	63.18
	1771	СВ	THR	744	17.148		72.719	1.00	59.84
	1772	OG1	THR	744	17.199	-1.817	72.265	1.00	60.98
	1773	CG2	THR	744	16.112	0.308	69.411	1.00	59.67
	1774	С	THR	744	16.913	-0.077	69.118	1.00	64.20
	1775	0	THR	744	15.913	0.580	68.903	1.00	61.36
	1776	N	MET	745	18.117	0.184	67.961	1.00	62.05
	1777	CA	MET	745	18.322	1.282	_	1.00	63.01
	1778	СВ	MET	745	19.703	1.909	68.158	1.00	61.21
	1779	CG	MET	745	20.029	2.189	69.614	1.00	62.14
	1780	SD	MET	745	21.418	3.324	69.877	1.00	61.78
5	1781	CE	MET	745	20.934	4.087	71.538		59.56
	1782	С	MET	745	18.175	0.824	66.517	1.00	62.58
	1783	0	MET	745	18.382	1.605	65.585	1.00	59.78
0	1784	N	SER	746	17.817	-0.442	66.334	1.00	58.09
	1785	CA	SER	746	17.624	-1.000	64.996	1.00	58.34
	1786	СВ	SER	746	16.169	-0.786	64.541	1.00	
	1787	OG	SER	746	15.252	-1.368	65.455	1.00	63.83 59.09
35	1788	С	SER	746	18.592	-0.429	63.940	1.00	61.57
	1789	0	SER	746	18.176	0.027	62.867	1.00	
	1790	N	ILE	747	19.882	-0.432	64.269	1.00	62.10
40	1791	CA	ILE	747	20.905	0.022	63.342	1.00	61.22
+0	1792	СВ	ILE	747	22.021	0.814	64.054		63.05
	1793	CG2	ILE	747	23.241	0.930	63.145		64.60
	1794	CG1	ILE	747	21.499	2.205	64.426		61.38
45	1795	CD1	ILE	747	22.576	3.198	64.804		63.3
	1796	С	ILE	747	21.46	-1.260	62.749	1.00	62.5
	1797	0	ILE	747	22.16	9 -2.011	63.419		
50	 	N	GLU	748	21.12	5 -1.507	61.49	1.00	
50	1798	CA	GLU	748	21.54	1 -2.711	60.78	7 1.00	
	1799	CB	GLU	748	20.49	7 -3.038	59.70	1.00	
	1800	CG	GLU	748	20.87	7 -4.168	58.75	6 1.00	
55	1801	CD	GLU	748	3 19.67	8 -4.723	57.97	3 1.00	
	1802		GLU	748	10.00	3 -3.932	57.26	2 1.00	62.3

	ATOM	IIC COORDINATE	S FOR THE	GR/TIF2	Z/DEX MODEL	USED IN MOI	ECULAR	REPLAC	EMENT
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	АТОМ
5	1804	OE2	GLU	748	19.406	-5.950	58.072	1.00	61.13
	1805	C	GLU	748	22.940	-2.658	60.175	1.00	61.28
	1806	0	GLU	748	23.391	-1.616	59.690	1.00	62.62
10	1807	2	PHE	749	23.622	-3.800	60.231	1.00	62.73
	1808	CA	PHE	749	24.963	-3.959	59.667	1.00	59.35
	1809	СВ	PHE	749	25.974	-4.421	60.733	1.00	59.45
45	1810	CG	PHE	749	26.299	-3.389	61.759	1.00	64.74
15	1811	CD1	PHE	749	25.399	-3.085	62.770	1.00	59.18
	1812	CD2	PHE	749	27.514	-2.721	61.721	1.00	57.96
1	1813	CE1	PHE	749	25.708	-2.119	63.742	1.00	61.52
20	1814	CE2	PHE	749	27.839	-1.753	62.685	1.00	65.31
	1815	cz	PHE	749	26.934	-1.451	63.697	1.00	59.87
	1816	C	PHE	749	24.872	-5.048	58.599	1.00	60.75
25	1817	0	PHE	749	24.047	-5.952	58.705	1.00	62.03
25	1818	Ν	PRO	750	25.705	-4.970	57.550	1.00	61.23
	1819	CD	PRO	750	26.645	-3.910	57.166	1.00	60.04
	1820	CA	PRO	750	25.652	-6.003	56.516	1.00	61.34
30	1821	СВ	PRO	750	26.584	-5.468	55.434	1.00	64.04
	1822	CG	PRO	750	26.608	-4.015	55.668	1.00	60.17
	1823	С	PRO	750	26.240	-7.235	57.172	1.00	60.83
<i>35</i>	1824	0	PRO	750	26.788	-7.143	58.271	1.00	59.53
55	1825	N	GLU	751	26.139	-8.386	56.523	1.00	60.43
	1826	CA	GLU	751	26.719	-9.572	57.122	1.00	61.33
	1827	СВ	GLU	751	26.350	-10.834	56.311	1.00	62.90
40	1828	CG	GLU	751	25.560	-10.608	55.002	1.00	60.51
	1829	CD	GLU	751	26.436	-10.142	53.837	1.00	57.86
	1830	OE1	GLU	751	27.420	-10.844	53.519	1.00	60.97
45	1831	OE2	GLU	751	26.138	-9.084	53.240	1.00	59.16
İ	1832	С	GLU	751	28.255	-9.389	57.219	1.00	58.48
	1833	0	GLU	751	28.850	-9.561	58.292	1.00	59.47
	1834	N	MET	752	28.891	-9.004	56.115	1.00	64.26
50	1835	CA	MET	752	30.336	-8.808	56.109	1.00	61.15
į	1836	СВ	MET	752	30.777	-8.060	54.857	1.00	63.84
	1837	CG	MET	752	32.255	-7.666	54.898	1.00	64.44
55	1838	SD	MET	752	33.383	-9.076	55.043	1.00	67.15
ļ	1839	CE	MET	752	33.649	-9.386	53.307	1.00	59.96
	1840	С	MET	752	30.884	-8.072	57.323	1.00	62.38

	ATOM	C COORDINATE	S FOR THE (B/TIF2/D	EX MODEL U	SED IN MOL	ECULAR R	EPLACE	MENT
	L	ATOM TYPE	RESIDUE	#	х	Υ	Z	В	ATOM
5	ATOM		MET	752	31.963	-8.394	57.811	1.00	60.81
	1841	O	LEU	753	30.163	-7.067	57.796	1.00	59.19
	1842	N CA	LEU	753	30.627	-6.323	58.957	1.00	62.39
	1843	CA	LEU	753	30.187	-4.862	58.881	1.00	61.65
10	1844	CB	LEU	753	31.214	-3.835	58.397	1.00	61.49
	1845	CG		753	31.713	-4.171	57.010	1.00	61.11
	1846	CD1	LEU	753	30.567	-2.471	58.411	1.00	63.29
15	1847	CD2	LEU	 	30.114	-6.946	60.241	1.00	58.84
	1848	С	LEU	753	30.779	-6.885	61.273	1.00	61.39
	1849	0	LEU	753	28.927	-7.541	60.177	1.00	62.56
	1850	N	ALA	754	28.337	-8.194	61.343	1.00	61.99
20	1851	CA	ALA	754		-8.775	60.983	1.00	59.37
	1852	СВ	ALA	754	26.963		61.747	1.00	66.01
	1853	С	ALA	754	29.287	-9.313	62,922	1.00	63.54
	1854	0	ALA	754	29.619	-9.482		1.00	63.92
25	1855	N	GLU	755	29.724	-10.044	60.722	L	59.42
	1856	CA	GLU	755	30.632	-11.194	60.795	1.00	
	1857	СВ	GLU	755	30.674	-11.851	59.407	1.00	60.24
30	1858	CG	GLU	755	31.733	-12.933	59.190	1.00	62.29
	1859	CD	GLU	755	31.348	-14.260	59.811	1.00	59.60
	1860	OE1	GLU	755	30.318	-14.834	59.388	1.00	60.67
	1861	OE2	GLU	755	32.075	-14.728	60.719	1.00	62.46
35	1862	С	GLU	755	32.068	-10.912	61.252	1.00	60.75
	1863	0	GLU	755	32.906	-11.809	61.240	1.00	61.42
	1864	N	ILE	756	32.363	-9.677	61.636	1.00	60.43
40	1865	CA	ILE	756	33.709	-9.328	62.074	1.00	65.41
	1866	СВ	ILE	756	34.369	-8.336	61.114	1.00	58.24
	1867	CG2	ILE	756	35.741	-7.964	61.623	1.00	57.70
	1868	CG1	ILE	756	34.478	-8.957	59.729	1.00	59.57
45	1869	CD1	ILE	756	35.178	-8.090	58.743	1.00	61.24
	1870	С	ILE	756	33.625	-8.693	63.439	1.00	63.18
	1871	0	ILE	756	34.373	-9.043	64.351	1.00	58.77
50	1872	N	ILE	757	32.705	-7.740	63.548	1.00	59.89
	1873	CA	ILE	757	32.434	-7.024	64.785	1.00	61.90
	1874	СВ	ILE	757	31.115	-6.254	64.668	1.00	64.77
	1875	CG2	ILE	757	30.778	-5.602	65.991	1.00	62.61
55	1876	CG1	ILE	757	31.224	-5.237	63.529	1.00	62.60
	1877	CD1	ILE	757	29.902	-4.649	63.097	1.00	59.02

				TABL	E 3 (continued	d)			
	<u> </u>	MIC COORDINATI	ES FOR THE	GR/TIF2	Z/DEX MODEL	USED IN MO	LECULAR	REPLAC	EMENT
5	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
3	1878	С	ILE	757	32.298	-8.069	65.879	1.00	60.76
	1879	0	ILE	757	32.990	-8.016	66.890	1.00	60.98
	1880	N	THR	758	31.396	-9.022	65.660	1.00	59.72
10	1881	CA	THR	758	31.184	-10.104	66.608	1.00	61.21
	1882	СВ	THR	758	30.224	-11.141	66.017	1.00	58.63
	1883	OG1	THR	758	30.260	-11.028	64.592	1.00	60.88
45	1884	CG2	THR	758	28.792	-10.925	66.527	1.00	60.75
15	1885	С	THR	758	32.540	-10.770	66.885	1.00	61.53
	1886	0	THR	758	33.167	-10.549	67.926	1.00	61.44
	1887	N	ASN	759	32.979	-11.572	65.924	1.00	62.04
20	1888	CA	ASN	759	34.240	-12.305	65.965	1.00	60.58
	1889	СВ	ASN	759	34.426	-13.001	64.623	1.00	60.54
	1890	CG	ASN	759	33.242	-12.774	63.689	1.00	60.06
25	1891	OD1	ASN	759	32.581	-11.723	63.736	1.00	59.27
25	1892	ND2	ASN	759	32.976	-13.747	62.825	1.00	59.97
	1893	С	ASN	759	35.470	-11.432	66.249	1.00	59.08
	1894	0	ASN	759	36.564	-11.710	65.734	1.00	63.02
30	1895	N	GLN	760	35.282	-10.388	67.059	1.00	60.43
	1896	CA	GLN	760	36.336	-9.442	67.438	1.00	61.43
	1897	СВ	GLN	760	36.620	-8.446	66.302	1.00	56.98
35	1898	CG	GLN	760	37.445	-8.966	65.121	1.00	61.31
33	1899	CD	GLN	760	38.839	-9.446	65.514	1.00	63.88
	1900	OE1	GLN	760	39.445	-8.949	66.463	1.00	59.43
	1901	NE2	GLN	760	39.356	-10.409	64.769	1.00	62.96
40	1902	С	GLN	760	35.850	-8.659	68.651	1.00	59.31
	1903	0	GLN	760	36.625	-8.353	69.563	1.00	59.88
	1904	N	ILE	761	34.546	-8.371	68.649	1.00	61.08
45	1905	CA	ILE	761	33.861	-7.606	69.704	1.00	64.40
40	1906	СВ	ILE	761	32.318	-7.582	69.469	1.00	60.77
	1907	CG2	ILE	761	31.759	-8.983	69.575	1.00	61.46
	1908	CG1	ILE	761	31.626	-6.686	70.500	1.00	61.86
50	1909	CD1	ILE	761	30.115	-6.703	70.390	1.00	62.34
	1910	С	ILE	761	34.111	-8.077	71.139	1.00	63.06
	1911	0	ILE	761	33.900	-7.317	72.087	1.00	60.11
55	1912	N	PRO	762	34.543	-9.338	71.319	1.00	58.19
33	1913	CD	PRO	762	34.581	-10.454	70.353	1.00	61.52
	1914	CA	PRO	762	34.800	-9.840	72.670	1.00	60.05

TABLE 3 (continued)

	ATOM	C COORDINATE	S FOR THE G	R/TIF2/D	EX MODEL U	SED IN MOLI	ECULAR RE	PLACE	MENT
	├ ───⊤	ATOM TYPE	RESIDUE	#	х	Υ	Z	В	ATOW
5	ATOM	CB	PRO	762	34.718	-11.350	72.482	1.00	60.47
	1915	CG	PRO	762	35.309	-11.528	71.122	1.00	62.98
	1916	C	PRO	762	36.160	-9.419	73.230	1.00	59.07
	1917		PRO	762	36.257	-8.697	74.232	1.00	61.15
10	1918	0	LYS	763	37.203	-9.887	72.558	1.00	59.41
	1919	N	LYS	763	38.580	-9.637	72.960	1.00	61.27
	1920	CA	LYS	763	39.424	-10.882	72.594	1.00	61.66
15	1921	CB	LYS	763	40.926	-10.651	72.347	1.00	62.08
	1922	CG	LYS	763	41.206	-9.910	71.025	1.00	58.99
	1923	CD	LYS	763	40.834	-10.723	69.776	1.00	60.53
	1924	CE	LYS	763	39.378	-11.026	69.623	1.00	62.94
20	1925	NZ		763	39.256	-8.359	72.438	1.00	63.01
	1926	C	LYS	763	40.164	-7.846	73.086	1.00	63.43
	1927	0	LYS	764	38.820	-7.847	71.289	1.00	64.75
25	1928	N	TYR		39.428	-6.653	70.673	1.00	58.42
20	1929	CA	TYR	764	38.399	-5.865	69.876	1.00	62.63
	1930	СВ	TYR	764	38.901	-5.590	68.486	1.00	65.16
	1931	CG	TYR	764	38.708	-6.516	67.467	1.00	57.96
30	1932	CD1	TYR	764	39.190	-6.287	66.180	1.00	61.30
	1933	CE1	TYR	764		-4.422	68.192	1.00	61.22
	1934	CD2	TYR	764	39.600	-4.183	66.902	1.00	61.36
05	1935	CE2	TYR	764	40.092		65.901	1.00	59.50
35	1936	CZ	TYR	764	39.876	-5.118	64.612	1.00	62.78
	1937	OH	TYR	764	40.304		71.535	1.00	61.96
	1938	С	TYR	764	40.204		72.003	1.00	61.04
40	1939	0	TYR	764	41.310			1.00	60.29
	1940	N	SER	765	39.653	+	71.701	1.00	61.03
	1941	CA	SER	765	40.324		72.519		57.40
	1942	СВ	SER	765	39.780		72.208	1.00	59.00
45	1943	OG	SER	765			72.144	1.00	59.80
	1944	С	SER	765			74.016		60.59
	1945	0	SER	765	39.574		74.809	+	59.3
50	1946	N	ASN	766	40.833		74.371		
	1947	CA	ASN	766	40.86		75.738	+	63.0
	1948	СВ	ASN	766	40.39	-6.867	75.745		
	1949	CG	ASN	766	38.95	9 -7.018	75.239	-	+
55	1950	OD1	ASN	766	38.59	3 -6.456	74.197	+	
	1951	ND2	ASN	766	38.14	3 -7.782	75.971	1.00	64.8

	ATOM	IIC COORDINATI	ES FOR THE (E 3 (continued D/DEX MODEL I		LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	1952	С	ASN	766	42.301	-5.305	76.311	1.00	62.76
	1953	0	ASN	766	42.503	-4.889	77.469	1.00	60.59
	1954	N	GLY	767	43.281	-5.673	75.478	1.00	59.11
10	1955	CA	GLY	767	44.689	-5.653	75.860	1.00	59.91
	1956	С	GLY	767	45.366	-6.867	75.232	1.00	61.75
	1957	0	GLY	767	46.588	-6.912	75.041	1.00	61.17
	1958	N	ASN	768	44.532	-7.846	74.887	1.00	62.80
15	1959	CA	ASN	768	44.942	-9.109	74.276	1.00	62.46
	1960	СВ	ASN	768	43.717	-10.032	74.246	1.00	59.72
	1961	CG	ASN	768	42.798	-9.832	75.467	1.00	60.42
20	1962	OD1	ASN	768	41.697	-10.404	75.538	1.00	59.89
	1963	ND2	ASN	768	43.248	-9.020	76.427	1.00	63.45
	1964	С	ASN	768	45.543	-8.940	72.855	1.00	63.10
05	1965	0	ASN	768	46.095	-9.882	72.282	1.00	62.80
25	1966	N	ILE	769	45.418	-7.744	72.284	1.00	58.10
	1967	CA	ILE	769	45.984	-7.464	70.967	1.00	60.18
	1968	СВ	ILE	769	45.006	-6.713	70.036	1.00	61.64
30	1969	CG2	ILE	769	45.569	-6.703	68.614	1.00	59.97
	1970	CG1	ILE	769	43.623	-7.361	70.051	1.00	65.54
	1971	CD1	ILE	769	42.605	-6.626	69.175	1.00	65.14
35	1972	С	ILE	769	47.192	-6.544	71.150	1.00	59.44
00	1973	0	ILE	769	47.217	-5.701	72.058	1.00	61.97
	1974	N	LYS	770	48.175	-6.692	70.267	1.00	61.57
	1975	CA	LYS	770	49.391	-5.890	70.314	1.00	60.09
40	1976	СВ	LYS	770	50.601	-6.778	70.033	1.00	61.51
	1977	CG	LYS	770	51.961	-6.172	70.339	1.00	61.08
	1978	CD	LYS	770	53.041	-7.224	70.047	1.00	59.40
45	1979	CE	LYS	770	54.344	-6.982	70.801	1.00	62.15
	1980	NZ	LYS	770	55.339	-8.089	70.604	1.00	63.19
	1981	С	LYS	770	49.333	-4.776	69.277	1.00	63.90
	1982	0	LYS	770	49.439	-5.031	68.071	1.00	62.08
50	1983	N	LYS	771	49.161	-3.545	69.754	1.00	59.06
	1984	CA	LYS	771	49.103	-2.376	68.884	1.00	61.08
	1985	СВ	LYS	771	48.386	-1.212	69.589	1.00	63.15
55	1986	CG	LYS	771	49.188	-0.525	70.712	1.00	63.84
	1987	CD	LYS	771	48.443	0.681	71.308	1.00	63.12
	1988	CE	LYS	771	49.384	1.588	72.100	1.00	59.83

TABLE 3 (continued)

		TABLE 3 (continued) ATOMIC COORDINATES FOR THE GR/TIF2/DEX MODEL USED IN MOLECULAR REPLACEMENT 7 B ATOM											
	ATOMI				X WODEL OF	Y	z	В	ATOM				
	ATOM	ATOM TYPE	RESIDUE	#	48.821		72.186	1.00	60.16				
	1989	NZ	LYS	771	50.532	-1.976		1.00	60.42				
	1990	C	LYS	771	51.276	-1.561	69.430	1.00	62.03				
	1991	0	LYS	771		-2.120		1.00	60.80				
10	1992	N	LEU	772	50.928	-1.756	66.890	1.00	58.97				
	1993	CA	LEU	772	52.285	-2.368	65.533	1.00	62.77				
	1994	СВ	LEU	772	52.629	-3.885	65.492	1.00	63.82				
	1995	CG	LEU	772	52.781	-4.346	64.046	1.00	62.61				
15	1996	CD1	LEU	772	52.780		66.203	1.00	63.11				
	1997	CD2	LEU	772	54.071	-4.295	66.812	1.00	61.57				
	1998	С	LEU	772	52.405	-0.243	66.289	1.00	60.62				
20	1999	0	LEU	772	51.513	0.428		1.00	59.76				
	2000	N	LEU	773	53.499 	0.296	67.341	1.00	60.00				
	2001	CA	LEU	773	53.704	1.734	67.317		59.66				
	2002	СВ	LEU	773	53.602	2.320	68.725	1.00	62.80				
25	2003	CG	LEU	773	52.221	2.321	69.380	1.00	61.23				
	2004	CD1	LEU	773	52.290	2.999	70.729	1.00	65.68				
	2005	CD2	LEU	773	51.233	3.053	68.490	1.00	62.80				
00	2006	C	LEU	773	55.051	2.094	66.727	1.00					
30	2007	0	LEU	773	55.911	1.234	66.517	1.00	61.81				
	2008	N	PHE	774	55.219	3.382	66.456	1.00	60.94				
	2009	CA	PHE	774	56.451	3.917	65.897	1.00	61.49				
35	2010	СВ	PHE	774	56.128	4.864	64.743	1.00	63.45				
	2010	CG	PHE	774	55.889	4.169	63.451	1.00	61.20				
	<u> </u>	CD1	PHE	774	56.936	3.532	62.802	1.00	63.76				
	2012	CD2	PHE	774	54.621	4.105	62.902	1.00	61.89				
40	2013	CE1	PHE	774	56.727	2.838	61.627	1.00	56.93				
	2014	CE2	PHE	774	54.395	3.409	61.720	1.00	59.92				
	2015	CZ	PHE	774	== 45.4	2.773	61.081	1.00	62.56				
45	2016	C	PHE	774	57.17	4.681	66.984	1.00					
	2017		PHE	774	58.400	4.702	67.046	1.00	60.03				
	2018	0	HIS	775	56.38	4 5.301	67.849	1.00	62.4				
	2019	N OA	HIS	775		5 6.104	68.934	1.00	64.6				
50	2020	CA	HIS	775		6 7.558	68.730	1.00	61.6				
	2021	CB	HIS	775		8 8.120	67.417	7 1.00	59.7				
	2022		HIS	77!			66.35	3 1.00	62.4				
55	2023	·		77!	50.00		67.04	7 1.00	60.3				
	2024		HIS	77			65.81	3 1.00	59.1				
	2025	CE1	HIS		30.0								

	ATOM	IIC COORDINATI	S FOR THE	GR/TIF2	DEX MODEL	USED IN MOI	LECULAR	REPLAC	EMENT
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	2026	NE2	HIS	775	57.092	8.886	65.370	1.00	59.04
	2027	O	HIS	775	56.428	5.596	70.277	1.00	64.58
	2028	0	HIS	775	55.390	4.948	70.373	1.00	58.66
10	2029	N	GLN	776	57.203	5.895	71.311	1.00	60.50
	2030	CA	GLN	776	56.864	5.502	72.669	1.00	61.43
	2031	СВ	GLN	776	58.154	5.293	73.457	1.00	59.86
	2032	CG	GLN	776	59.281	6.243	73.042	1.00	57.49
15	2033	CD	GLN	776	60.679	5.638	73.241	1.00	60.53
	2034	OE1	GLN	776	61.696	6.265	72.919	1.00	61.97
	2035	NE2	GLN	776	60.730	4.412	73.772	1.00	60.63
20	2036	С	GLN	776	55.993	6.583	73.335	1.00	60.06
	2037	0	GLN	776	56.098	7.765	72.919	1.00	61.84
	2038	ОХТ	GLN	776	55.219	6.239	74.268	1.00	60.74
05	2039	СВ	GLU	741	35.922	-16.424	65.488	1.00	58.89
25	2040	CG	GLU	741	36.766	-17.078	64.386	1.00	67.76
	2041	CD	GLU	741	38.144	-16.463	64.277	1.00	60.66
	2042	OE1	GLU	741	38.838	-16.698	63.252	1.00	59.66
30	2043	OE2	GLU	741	38.524	-15.741	65.233	1.00	61.27
	2044	С	GLU	741	33.996	-16.854	64.024	1.00	61.38
	2045	0	GLU	741	33.681	-15.808	63.464	1.00	63.70
35	2046	N	GLU	741	34.336	-18.280	65.946	1.00	62.41
33	2047	CA	GLU	741	34.460	-16.870	65.464	1.00	59.35
	2048	N	GLU	742	33.995	-18.034	63.422	1.00	58.35
	2049	CA	GLU	742	33.594	-18.184	62.036	1.00	63.61
40	2050	СВ	GLU	742	32.158	-17.672	61.824	1.00	60.80
	2051	CG	GLU	742	31.516	-18.155	60.518	1.00	62.06
	2052	CD	GLU	742	31.783	-19.645	60.238	1.00	63.64
45	2053	OE1	GLU	742	31.146	-20.190	59.309	1.00	64.92
	2054	OE2	GLU	742	32.632	-20.276	60.925	1.00	62.96
	2055	С	GLU	742	34.541	-17.482	61.064	1.00	61.07
	2056	0	GLU	742	35.655	-17.950	60.825	1.00	59.51
50	2057	N	ASN	743	34.090	-16.355	60.522	1.00	61.83
	2058	CA	ASN	743	34.850	-15.586	59.535	1.00	60.95
ĺ	2059	СВ	ASN	743	36.300	-15.368	59.987	1.00	61.82
55	2060	CG	ASN	743	36.418	-14.360	61.118	1.00	64.29
	2061	OD1	ASN	743	36.646	-14.729	62.277	1.00	58.19
[2062	ND2	ASN	743	36.262	-13.077	60.787	1.00	58.54

TABLE 3 (continued)

		IC COORDINATE	C FOR THE (TABLE	3 (continued)	SED IN MOL	ECULAR R	EPLACE	MENT
			RESIDUE	#	X	Y	Z	В	ATOM
5	ATOM	ATOM TYPE	ASN	743	34.842	-16.318	58.192	1.00	60.80
	2063	С	ASN	743	35.780	-16.196	57.410	1.00	62.67
	2064	<u> </u>		744	33.779	-17.075	57.935	1.00	59.69
	2065	N	ALA	744	33.640	-17.827	56.696	1.00	61.76
10	2066	CA	ALA	744	32.350	-18.623	56.729	1.00	60.04
	2067	СВ	ALA	744	33.675	-16.930	55.453	1.00	62.63
	2068	С	ALA		34.423	-17.199	54.503	1.00	58.54
15	2069	0	ALA	744	32.869	-15.866	55.462	1.00	60.19
13	2070	N	LEU	745		-14.936	54.329	1.00	62.12
	2071	CA	LEU	745	32.820	-13.783	54.617	1.00	60.59
	2072	СВ	LEU	745	31.855		53.739	1.00	58.63
20	2073	CG	LEU	745	30.606	-13.726		1.00	64.25
	2074	CD1	LEU	745	29.895	-12.400	53.937		60.41
	2075	CD2	LEU	745	31.004	-13.902	52.291	1.00	61.72
	2076	С	LEU	745	34.190	-14.360	53.952	1.00	59.83
25	2077	0	LEU	745	34.521	-14.276	52.776	1.00	
	2078	N	LEU	746	34.978	-13.961	54.946	1.00	57.79
	2079	CA	LEU	746	36.311	-13.413	54.691	1.00	60.45
30	2080	СВ	LEU	746	36.898	-12.849	55.989	1.00	61.06
	2081	CG	LEU	746	37.673	-11.534	55.956	1.00	61.13
	2082	CD1	LEU	746	38.380	-11.374	57.275	1.00	61.70
	2083	CD2	LEU	746	38.664	-11.520	54.823	1.00	61.56
35	2084	С	LEU	746	37.249	-14.511	54.156	1.00	58.73
	2085	0	LEU	746	37.905	-14.356	53.120	1.00	62.68
	2086	N	ARG	747	37.307	-15.613	54.895	1.00	61.00
40	2087	CA	ARG	747	38.145	-16.759	54.560	1.00	57.24
	2088	СВ	ARG	747	37.853	-17.906	55.539	1.00	66.74
	2089	CG	ARG	747	38.332	-19.278	55.102	1.00	61.05
	2090	CD	ARG	747	38.533	-20.190	56.319	1.00	62.51
45	2091	NE	ARG	747	39.807	-19.938	56.998	1.00	62.06
	2092	CZ	ARG	747	39.952	-19.867	58.321	1.00	63.78
	2093	NH1	ARG	747	38.894	-20.023	59.118	1.00	60.31
50	2094	NH2	ARG	747	41.156	-19.637	58.848	1.00	60.80
-	2095	С	ARG	747	37.883	-17.186	53.134	1.00	59.12
	2096	0	ARG	747	38.793	-17.589	52.418	1.00	62.02
	2097	N	TYR	748	36.623	-17.088	52.731	1.00	61.89
<i>55</i>	2097	CA	TYR	748	36.215	-17.449	51.387	1.00	65.00
	2098	СВ	TYR	748		-17.413	51.301	1.00	58.95
	2099								

	ATOM	IIC COORDINATI	S FOR THE	GR/TIF2	Z/DEX MODEL	USED IN MO	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	2100	CG	TYR	748	34.136	-17.350	49.897	1.00	62.12
	2101	CD1	TYR	748	34.256	-18.429	49.021	1.00	63.79
	2102	CE1	TYR	748	33.805	-18.342	47.715	1.00	61.69
10	2103	CD2	TYR	748	33.544	-16.185	49.430	1.00	61.63
	2104	CE2	TYR	748	33.091	-16.084	48.127	1.00	60.08
	2105	CZ	TYR	748	33.226	-17.163	47.272	1.00	58.42
	2106	ОН	TYR	748	32.806	-17.030	45.966	1.00	59.74
15	2107	С	TYR	748	36.832	-16.447	50.419	1.00	61.75
	2108	0	TYR	748	37.599	-16.807	49.532	1.00	61.82
	2109	N	LEU	749	36.501	-15.178	50.628	1.00	60.52
20	2110	CA	LEU	749	36.974	-14.069	49.800	1.00	61.53
	2111	СВ	LEU	749	36.380	-12.757	50.303	1.00	63.00
	2112	CG	LEU	749	34.873	-12.741	50.535	1.00	57.09
	2113	CD1	LEU	749	34.508	-11.427	51.167	1.00	62.85
25	2114	CD2	LEU	749	34.113	-12.954	49.233	1.00	62.37
	2115	С	LEU	749	38.482	-13.910	49.733	1.00	64.05
	2116	0	LEU	749	38.991	-13.275	48.807	1.00	61.97
30	2117	N	LEU	750	39.195	-14.475	50.703	1.00	59.99
	2118	CA	LEU	750	40.644	-14.363	50.728	1.00	63.11
	2119	СВ	LEU	750	41.147	-14.497	52.167	1.00	62.65
35	2120	CG	LEU	750	41.463	-13.160	52.849	1.00	63.02
33	2121	CD1	LEU	750	41.695	-13.344	54.327	1.00	58.04
	2122	CD2	LEU	750	42.693	-12.559	52.194	1.00	62.24
	2123	С	LEU	750	41.436	-15.294	49.803	1.00	64.30
40	2124	0	LEU	750	42.666	-15.246	49.796	1.00	58.24
	2125	N	ASP	751	40.745	-16.129	49.024	1.00	59.30
-	2126	CA	ASP	751	41.396	-17.048	48.068	1.00	62.49
45	2127	СВ	ASP	751	41.860	-18.337	48.764	1.00	62.90
	2128	CG	ASP	751	40.921	-18.784	49.855	1.00	62.09
ĺ	2129	OD1	ASP	751	40.342	-17.900	50.526	1.00	62.68
	2130	OD2	ASP	751	40.779	-20.014	50.051	1.00	60.33
50	2131	С	ASP	751	40.472	-17.371	46.897	1.00	61.25
	2132	0	ASP	751	39.476	-18.065	47.053	1.00	61.96
	2133	N	LYS	752	40.824	-16.849	45.725	1.00	62.34
55	2134	CA	LYS	752	40.030	-17.003	44.506	1.00	62.50
	2135	СВ	LYS	752	38.733	-16.160	44.600	1.00	63.17
	2136	CG	LYS	752	37.872	-16.386	45.858	1.00	60.82

TABLE 3 (continued)

				TABLE	3 (continued)	IN MOLEC	ECULAR REPLACEMENT			
ſ	ATOMIC			R/TIF2/I	DEX WODEL O		Y	Z	В	ATOM
	MOTA	ATOM TYPE	RESIDUE	#	36.923	-15.	230	46.159	1.00	62.16
	2137	CD	LYS	752	35.726	-15.		45.223	1.00	60.30
-	2138	CE	LYS	752				43.779	1.00	61.47
Ţ	2139	NZ	LYS	752	36.101			43.384	1.00	63.98
o t	2140	С	LYS	752	40.895		.833	43.212	1.00	60.08
	2141	0	LYS	752	42.043		.496	42.641	1.00	61.50
	2142	N	ASP	753	40.322	ļ	1.809	41.552	1.00	60.87
	2143	CA	ASP	753	41.004	↓	3.778	42.151	1.00	61.81
5	2144	СВ	ASP	753	41.969	↓	2.886	43.212	1.00	65.36
	2145	CG	ASP	753	41.293	+		44.262	1.00	58.98
	2146	OD1	ASP	753	40.845		3.417	42.996	1.00	62.40
20	2147	OD2	ASP	753	41.204	+-	1.653	40.533	1.00	62.25
20	2148	С	ASP	753	41.712	+	5.723	40.770	1.00	62.51
	2149	0	ASP	753	41.905		6.929	39.394	1.00	59.26
	2150	N	ASP	754	42.076	-+	5.125	38.271	1.00	62.08
25	2151	CA	ASP	754	42.713		15.818		1.00	60.51
	2152	СВ	ASP	754	42.118		15.302	36.949	1.00	60.95
	2153	CG	ASP	754	41.121		14.148	37.150	1.00	61.57
	2154	OD1	ASP	754	40.683	3 -	13.555	36.135	+	61.61
30	2155	OD2	ASP	754	40.76		13.831	38.304	+	60.21
	ļ	С	ASP	754	44.23	6 -	·15.678 	38.234		63.29
	2156	10	ASP	754	44.94	6	-16.712 	38.264		61.39
35	2157	OXT	ASP	754	44.70	7	-14.526	38.169	1.00	59.84
	2158	СВ	GLN	52	7 44.42	25	43.308	57.458		63.06
	2159	CG	GLN	52	7 45.33	30	43.181	58.697		61.64
	2160	CD	GLN	52	7 46.17	73	41.895	58.67		
40	2161	OE1	GLN	52	7 46.9	13	41.596	59.62	+	
	2162	NE2	GLN	52	7 46.0	65	41.137	57.58		
	2163		GLN	52	27 43.9	94	44.763	55.47		
45	2164	- C	GLN	52	27 44.7	111	45.517	54.79		
	2165		GLN	52	27 42.8	343	45.238	57.67	-+-	
	2166		GLN		27 44.0	95	44.745	57.00	06 1.00	
	2167		LEU		28 43.	105	43.912	54.9	55 1.00	
50	2168				28 42.5	857	43.747	53.5	16 1.0	
	2169		LEU			696	42.579	52.9	79 1.0	
	2170		LEU			210	42.751	53.1	24 1.0	0 58.9
55	2171		LEU			858	41.410	53.5	01 1.0	0 57.
33	2172		LEU			.778	43.371	51.8	331 1.0	00 60.
	217	CD2	LEU	:	70.		<u> </u>			

	ATOM	IIC COORDINATI	S FOR THE	GR/TIF2	Z/DEX MODEL	JSED IN MO	ECULAR	REPLAC	EMENT
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	2174	O	LEU	528	41.369	43.449	53.303	1.00	63.94
	2175	0	LEU	528	40.531	44.290	53.650	1.00	62.36
	2176	N	THR	529	41.067	42.256	52.748	1.00	59.95
10	2177	CA	THR	529	39.689	41.769	52.487	1.00	61.84
	2178	СВ	THR	529	39.396	40.430	53.232	1.00	59.05
	2179	OG1	THR	529	40.375	39.442	52.866	1.00	63.83
	2180	CG2	THR	529	37.997	39.920	52.882	1.00	59.80
15	2181	O	THR	529	38.725	42.842	52.992	1.00	61.32
	2182	0	THR	529	37.988	42.645	53.973	1.00	61.35
	2183	N	PRO	530	38.704	43.977	52.271	1.00	64.25
20	2184	CD	PRO	530	38.650	43.494	50.878	1.00	59.35
	2185	CA	PRO	530	38.021	45.276	52.317	1.00	58.74
	2186	СВ	PRO	530	37.610	45.502	50.860	1.00	60.27
25	2187	CG	PRO	530	37.368	44.132	50.384	1.00	65.84
25	2188	С	PRO	530	36.839	45.387	53.239	1.00	62.92
	2189	0	PRO	530	36.948	45.328	54.474	1.00	60.28
	2190	N	THR	531	35.706	45.591	52.590	1.00	63.85
30	2191	CA	THR	531	34.443	45.708	53.246	1.00	62.34
	2192	СВ	THR	531	34.253	47.135	53.851	1.00	63.80
	2193	OG1	THR	531	33.854	47.016	55.230	1.00	64.25
35	2194	CG2	THR	531	33.218	47.940	53.067	1.00	61.34
55	2195	С	THR	531	33.526	45.410	52.081	1.00	61.78
	2196	0	THR	531	32.505	44.758	52.251	1.00	61.93
	2197	N	LEU	532	33.917	45.822	50.877	1.00	62.02
40	2198	CA	LEU	532	33.060	45.545	49.722	1.00	60.94
	2199	СВ	LEU	532	33.410	46.445	48.528	1.00	57.32
	2200	CG	LEU	532	32.463	46.285	47.329	1.00	64.49
45	2201	CD1	LEU	532	31.027	46.313	47.771	1.00	61.90
	2202	CD2	LEU	532	32.702	47.377	46.344	1.00	62.84
	2203	С	LEU	532	33.077	44.077	49.283	1.00	61.37
	2204	0	LEU	532	32.016	43.461	49.149	1.00	62.65
50	2205	N	VAL	533	34.266	43.518	49.052	1.00	61.22
	2206	CA	VAL	533	34.366	42.119	48.635	1.00	60.75
	2207	СВ	VAL	533	35.781	41.753	48.114	1.00	59.58
55	2208	CG1	VAL	533	. 36.697	41.400	49.264	1.00	60.31
	2209	CG2	VAL	533	35.695	40.576	47.185	1.00	59.77
	2210	С	VAL	533	34.062	41.240	49.840	1.00	63.61

TABLE 3 (continued)

				7	TABL	E3 (continued)			OUL AD	DEP	LACE	MEN	r
_		C COORDINATI	ES FOF	THE GR	/TIF	2/DEX	MODEL U	SED	IN MOLE	CULAH	HEF		ATC	M
	MOTA	C COORDINATI	BES	IDUE	#	T	Х		Y					2.93
	ATOM	ATOM TYPE	VA		533	1	33.861	40.	038	49.709	+-	.00		1.64
	2211	0	SE		534		34.053	41.	.859	51.013	+-	.00		50.61
\	2212	N	 		534	 	33.774	41	.170	52.260	+	.00		62.32
l	2213	CA			534	+	34.143	42	.089	53.425	-+-	.00		60.70
10	2214	СВ		ER	534		34.391	41	.364	54.61		1.00		62.67
	2215	OG			534		32.276	40	0.880	52.27		1.00		
	2216	С		ER	534	-+	31.799	39	9.906	52.85	4	1.00	 	59.90
	2217	0		ER	535		31.544	4	1.747	51.59	3	1.00	 	60.18
15	2218	N		EU	53		30.102	4	1.644	51.50	8	1.00		60.75
	2219	CA		EU			29.527		2.975	51.04	18	1.00		61.59
	2220	СВ		.EU	53		28.027	+	13.101	51.2	45	1.00		61.16
20	2221	CG		_EU	53	-+	27.773		43.835	52.5	37	1.00		63.92
20	2222	CD1		LEU	53		27.416		43.850	50.0	89	1.00)	61.72
	2223	CD2		LEU	+	35		+	40.547	50.5	43	1.00)	60.18
	2224	С		LEU	5	35	29.688	-+-	39.714	50.8	368	1.0	0	58.39
25	2225	0		LEU	5	35	28.85		40.552	49.	349	1.0	0	60.57
	2226	N		LEU	5	36	30.26		39.536	48.	355	1.0	0	63.14
	2227	CA		LEU	5	36	29.95		39.719		115	1.0	00	61.69
	2228	СВ		LEU	15	536	30.81				284	1.0	00	63.99
30	2229		_	LEU		536	30.67	-+	40.980		.118	1.0	00	60.60
	ļ	CD1		LEU	1	536	31.6	22	40.864		.801	1	00	62.81
	2230	- CD2		LEU		536	29.2	47	41.145		.908		00	61.72
35	2231			LEU	1	536	30.2	04	38.140		3.379		.00	60.04
	2232			LEU		536	29.7	03	37.141			+-	.00	60.48
	223		+	GLU	1	537	30.9	996	38.086	-+-	9.970		.00	61.60
	223	·		GLU		537	31.3	359	36.838		0.607			61.56
40	223			GLU		537	32.	691	37.003		1.307		.00	58.70
	223			GLU		537	33.	169	35.763		1.998		1.00	62.52
	223			GLU		537	34.	599	35.90		2.442		1.00	61.18
45	223			GLU		537	35	.173	34.90	0 !	52.91		1.00	60.21
40	22					537	35	.140	37.03	3	52.30		1.00	
	22	40 OE2	<u></u>	GLU		537	30	.344	36.28	8	51.59	2	1.00	59.30
	22	41 C		GLU		537		0.094	35.08	34	51.60)4	1.00	60.2
50	22	42 0		GLU				9.773	1	55	52.42	24	1.00	61.8
	22	243 N		VAL		538		8.781			53.3	99	1.00	62.8
	2:	244 CA		VAL		538		8.636			54.5	91	1.00	57.0
	2	245 CB	·	VAL		538		9.993			54.9	57	1.00	61.4
55	·	246 CG	31	VAL		538		7.61			54.2	268	1.00	60.
	\	247 CC	32	VAL		53	B 2	27.01						

	ATOM	IIC COORDINATI	ES FOR THE		DEX MODEL I	<u> </u>	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	2248	С	VAL	538	27.420	36.586	52.752	1.00	61.99
	2249	0	VAL	538	26.576	35.841	53.233	1.00	61.89
	2250	N	ILE	539	27.203	37.322	51.669	1.00	61.34
10	2251	CA	ILE	539	25.931	37.263	50.977	1.00	60.88
	2252	СВ	ILE	539	25.628	38.548	50.209	1.00	57.53
	2253	CG2	ILE	539	26.034	39.737	51.035	1.00	63.74
	2254	CG1	ILE	539	26.365	38.550	48.869	1.00	64.95
15	2255	CD1	ILE	539	25.847	39.584	47.898	1.00	61.40
	2256	С	ILE	539	25.946	36.133	49.977	1.00	59.86
	2257	0	ILE	539	24.984	35.934	49.251	1.00	60.95
20	2258	N	GLU	540	27.051	35.408	49.919	1.00	61.19
	2259	CA	GLU	540	27.170	34.290	48.993	1.00	64.61
	2260	СВ	GLU	540	28.620	33.798	48.960	1.00	61.89
25	2261	CG	GLU	540	28.917	32.628	48.022	1.00	59.99
25	2262	CD	GLU	540	28.635	32.926	46.560	1.00	60.98
	2263	OE1	GLU	540	28.949	34.050	46.103	1.00	60.19
	2264	OE2	GLU	540	28.113	32.025	45.861	1.00	58.09
30	2265	С	GLU	540	26.241	33.181	49.469	1.00	60.25
	2266	0	GLU	540	26.357	32.710	50.603	1.00	62.79
	2267	N	PRO	541	25.289	32.766	48.614	1.00	59.70
35	2268	CD	PRO	541	24.961	33.287	47.275	1.00	61.01
	2269	CA	PRO	541	24.362	31.703	49.013	1.00	61.09
	2270	СВ	PRO	541	23.361	31.665	47.861	1.00	63.13
	2271	CG	PRO	541	24.138	32.177	46.694	1.00	57.00
40	2272	С	PRO	541	25.051	30.365	49.254	1.00	60.83
	2273	0	PRO	541	25.979	29.988	48.535	1.00	60.28
	2274	N	GLU	542	24.607	29.669	50.297	1.00	60.82
45	2275	CA	GLU	542	25.157	28.364	50.655	1.00	61.11
	2276	СВ	GLU	542	24.607	27.933	52.001	1.00	63.94
	2277	CG	GLU	542	23.163	27.558	51.899	1.00	65.51
	2278	CD	GLU	542	22.569	27.217	53.237	1.00	61.20
50	2279	OE1	GLU	542	21.369	26.813	53.269	1.00	64.82
	2280	OE2	GLU	542	23.307	27.360	54.253	1.00	61.05
	2281	С	GLU	542	24.668	27.393	49.584	1.00	60.85
55	2282	0	GLU	542	23.631	27.637	48.966	1.00	61.52
	2283	N	VAL	543	25.369	26.291	49.353	1.00	62.89
	2284	CA	VAL	543	24.879	25.397	48.316	1.00	61.20

TABLE 3 (continued)

				TAE	BLE 3	(continued)	CEDI	N MOLE	CULAR R	EPLA	CEME	VΤ
٢	ATOM	C COORDINATE	S FOR THE	GR/TI	F2/DEX	MODELO		7	Z	В	ΑT	ОМ
-	ATOM	ATOM TYPE	RESIDUE	#			24.5		47.676	1.00		60.15
5	2285	СВ	VAL	543		26.029	25.		48.116	1.00		61.25
}	2286	CG1	VAL	543	3	27.366		132	48.011	1.00	5	64.25
	2287	CG2	VAL	543	3	25.903		465	48.760	1.00	5	61.19
	2288	С	VAL	54	3	23.745		232	49.955	1.0	0	61.59
10	2289	0	VAL	54	3	23.506	-	944	47.769	1.0	0	60.75
,	2290	N	LEU	54	4	23.037	 	.068	48.018	1.0	0	62.70
	2291	CA	LEU	54	4	21.910	1	.557	47.244	1.0	00	61.76
15	2292	СВ	LEU	54	14	20.686	+		47.237	1.0	00	62.21
	2293	CG	LEU	54	44	20.315	+	5.041	48.639	1.0	00	60.39
	2294	CD1	LEU	5	44	19.968	+	5.490	46.654	1.	00	61.37
	2295	CD2	LEU	5	44	21.464	+-	5.856	47.591	+-	00	61.62
20	2296	C	LEU	5	44	22.209		1.639	46.721		00	61.82
	2297	0	LEU	5	544	23.047		1.388	48.222	+-	.00	60.41
		N	TYR	:	545	21.504		0.713			.00	64.14
25	2298	CA	TYR	- :	545	21.623		9.306	47.915	+-	.00	59.96
	2299	СВ	TYR		545	21.430		18.495 	49.189	- -	.00	66.69
	2300	CG	TYR		545	22.56		18.713	50.160	_	.00	63.31
	2301	CD1	TYR	_	545	22.71	5	17.908 	51.28	+	1.00	61.54
30	2302	CE1	TYR	_	545	23.81	0	18.056	52.12	_	1.00	62.21
	2303	CD2	TYR	_	545	23.53	37	19.684	49.90	-+		61.49
	2304		TYR		545	24.63	32	19.843	50.73	-	1.00	59.50
35	2305		TYR		545	24.70	69	19.022	51.84		1.00	60.93
	2306		TYR		545	25.8	98	19.142	52.61		1.00	58.64
	2307		TYR		545	20.4	82	19.111	46.94	-+	1.00	62.56
	2308		TYR		545	19.5	553	19.912	46.9	56	1.00	57.5
40	2309		ALA		546	20.5	532	18.077	46.1	+	1.00	59.1
	2310		ALA		546	19.4	461	17.886	45.1	45	1.00	60.5
	231		ALA		546	20.0	026	17.390	43.8	345	1.00	
45	231		ALA		546	18.	347	16.965	45.5	595	1.00	62.1
40	231				546	17.	352	16.821	44.8	395	1.00	62.3
	231		ALA		547	18.	.493	16.338	46.	755	1.00	59.6
	231		GL		547	17.	.441	15.445	47.	203	1.00	63.
50	23		GL		547		.125	14.40	g 46.	137	1.00	
	23		GL		547		.968	14.06	8 45	.890	1.00	
	23	18 O	GL		548		3.180	13.91	8 45	.496	1.00	
	23	19 N	TY		548		3.095	12.90	6 44	.447	1.00	
55	23	20 CA	TY				9.366	12.97	1 43	3.621	1.00	60
	23	321 CB	T	'R	548	<u>, </u>		<u> </u>				

TABLE 3 (continued)

	ATOM	IIC COORDINATI	S FOR THE	GR/TIF2	Z/DEX MODEL I	JSED IN MOI	ECULAR I	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	2322	CG	TYR	548	19.357	12.107	42.403	1.00	61.55
	2323	CD1	TYR	548	18.522	12.406	41.331	1.00	65.33
	2324	CE1	TYR	548	18.550	11.657	40.175	1.00	62.35
10	2325	CD2	TYR	548	20.218	11.023	42.292	1.00	62.44
	2326	CE2	TYR	548	20.251	10.267	41.142	1.00	64.59
	2327	CZ	TYR	548	19.416	10.594	40.086	1.00	60.42
	2328	ОН	TYR	548	19.467	9.877	38.925	1.00	60.60
15	2329	O	TYR	548	17.979	11.519	45.080	1.00	60.53
	2330	0	TYR	548	18.584	11.272	46.114	1.00	61.95
	2331	N	ASP	549	17.227	10.603	44.480	1.00	60.31
20	2332	CA	ASP	549	17.135	9.281	45.088	1.00	60.89
	2333	СВ	ASP	549	16.206	8.359	44.317	1.00	61.64
	2334	CG	ASP	549	15.653	7.256	45.196	1.00	62.87
25	2335	OD1	ASP	549	16.437	6.715	45.997	1.00	61.92
25	2336	OD2	ASP	549	14.446	6.929	45.100	1.00	58.12
	2337	С	ASP	549	18.525	8.656	45.152	1.00	62.05
	2338	0	ASP	549	19.176	8.728	46.190	1.00	59.43
30	2339	N	SER	550	18.977	8.052	44.049	1.00	61.36
	2340	CA	SER	550	20.312	7.425	43.963	1.00	61.16
	2341	СВ	SER	550	21.301	8.127	44.910	1.00	61.33
35	2342	OG	SER	550	22.637	8.055	44.435	1.00	65.58
55	2343	С	SER	550	20.286	5.923	44.268	1.00	62.72
	2344	0	SER	550	21.025	5.138	43.662	1.00	61.37
	2345	N	SER	551	19.422	5.543	45.206	1.00	60.55
40	2346	CA	SER	551	19.262	4.155	45.623	1.00	62.47
	2347	СВ	SER	551	18.461	4.092	46.927	1.00	59.78
	2348	OG	SER	551	17.138	4.551	46.727	1.00	65.75
45	2349	С	SER	551	18.548	3.348	44.544	1.00	61.26
	2350	0	SER	551	18.187	2.189	44.749	1.00	64.05
	2351	N	VAL	552	18.349	3.976	43.394	1.00	61.88
	2352	CA	VAL	552	17.683	3.338	42.268	1.00	61.07
50	2353	СВ	VAL	552	16.146	3.536	42.346	1.00	61.01
	2354	CG1	VAL	552	15.781	4.362	43.582	1.00	62.13
	2355	CG2	VAL	552	15.642	4.194	41.084	1.00	63.59
55	2356	С	VAL	552	18.245	3.935	40.975	1.00	60.74
	2357	0	VAL	552	18.423	5.151	40.872	1.00	60.94
	2358	N	PRO	553	18.502	3.085	39.966	1.00	57.88

TABLE 3 (continued)

					LES	(continued)		NAOLE	CULAR R	EPL	ACEME	ENT
Г	ΔΤΟΜΙ	C COORDINATE	S FOR THE (AR/TIF	2/DEX	MODEL US	SED II	, MOLE	7	В	7	ТОМ
}	ATOM	ATOM TYPE	RESIDUE	#				+	39.869	1.0		60.27
5	2359	CD	PRO	553		17.755	1.8		38.648	1.0		60.29
}		CA	PRO	553		19.058		118	37.718	1.0	-+-	59.38
-	2360	СВ	PRO	553	3	18.407		387		1.0		59.68
}	2361	CG	PRO	553	3	17.208		918	38.478	1.0		61.75
10	2362	C	PRO	550	3	18.933	4.	837	38.105	1.0		60.81
	2363	0	PRO	55	3	17.864		452	38.132	├ ─		59.48
	2364	N	ASP	55	4	20.055	5.	352	37.616	┼	00	59.15
15	2365	CA	ASP	55	4	20.061	6	.676	37.032	+-	00	62.17
15	2366		ASP	55	54	21.477	7	.212	36.819	+-	00	62.93
	2367	CB	ASP	55	54	22.222	7	.452	38.101		.00	60.70
	2368	CG	ASP	5	54	21.591	7	.655	39.164	-	.00	60.19
20	2369	OD1	ASP	5	54	23.467	7	7.455	38.017		.00	
	2370	OD2	ASP	+_	54	19.433	1	6.505	35.667	1	.00	61.49
	2371	С	ASP		54	18.898		5.446	35.354	1	1.00	59.51
	2372	0			555	19.536		7.557	34.859)	1.00	60.31
25	2373	N	SER		555	19.023	-	7.601	33.492	2	1.00	60.74
	2374	CA	SER		555	17.576		7.113	33.41	9	1.00	64.15
	2375	СВ	SER			16.687		8.099	33.89	6	1.00	60.71
30	2376	OG	SER		555	19.092	-	9.069	33.10	8	1.00	61.31
	2377	С	SER		555	18.77	$-\!\!\!+\!\!\!\!-$	9.929	33.92	7	1.00	59.93
	2378	0	SER		555	19.52		9.358	31.88	33	1.00	62.16
	2379	N	THR		556	19.52		10.742	31.43	34	1.00	61.52
35	2380	CA	THR		556		-	10.857	29.89	95	1.00	59.0
	2381	СВ	THR		556	19.67		10.212	29.3	91	1.00	60.6
	2382	OG1	THR		556	20.85		12.330	29.4	75	1.00	60.8
40	2383		THR		556	19.67	-+	11.505	31.9		1.00	61.9
40	2384		THR		556	18.42			32.7		1.00	60.4
	238		THR		556	18.5		12.377	31.3		1.00	60.9
	238	- NI	TRP		557	17.2		11.145			1.00	
45	238		TRP		557	15.9		11.734			1.00	
	238		TRP)	557	14.8	364	10.739	+	225	1.00	-
	238		TRP	•	557	13.7	719	10.807		491	1.00	
	 	000	TRE	•	557	12.8	895	11.949			1.00	
50	239	050	TRE	•	557	12.	066	11.627		.595	1.0	
	23	050			557	12.	785	13.21		.911	+	
	23	001			557	13.	.357	9.85		.145	+	
55	 	7151			557	12	.369	10.34		3.974		
	23	94 NE1 395 CZ2			557	, 11	.132	12.53	5 34	1.132	1.0	0 0

	ATOM	IIC COORDINATI	ES FOR THE (E 3 (continued D/DEX MODEL I		LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
5 .	2396	CZ3	TRP	557	11.857	14.124	32.452	1.00	61.15
	2397	CH2	TRP	557	11.045	13.773	33.548	1.00	61.06
	2398	С	TRP	557	15.816	12.176	33.063	1.00	61.03
10	2399	0	TRP	557	15.546	13.342	33.335	1.00	63.66
	2400	N	ARG	558	15.972	11.228	33.982	1.00	62.37
	2401	CA	ARG	558	15.798	11.466	35.413	1.00	63.98
	2402	СВ	ARG	558	15.806	10.116	36.134	1.00	61.30
15	2403	CG	ARG	558	15.389	10.127	37.590	1.00	62.22
	2404	CD	ARG	558	15.189	8.686	38.070	1.00	59.18
	2405	NE	ARG	558	16.210	8.204	39.005	1.00	60.75
20	2406	CZ	ARG	558	16.280	8.542	40.294	1.00	62.74
	2407	NH1	ARG	558	15.392	9.378	40.820	1.00	65.45
	2408	NH2	ARG	558	17.222	8.022	41.074	1.00	61.39
oe.	2409	С	ARG	558	16.814	12.416	36.056	1.00	63.08
25	2410	0	ARG	558	16.524	13.027	37.085	1.00	62.80
	2411	N	ILE	559	17.991	12.548	35.451	1.00	63.40
	2412	CA	ILE	559	19.036	13.423	35.983	1.00	59.67
30	2413	СВ	ILE	559	20.459	12.828	35.701	1.00	59.65
	2414	CG2	ILE	559	21.437	13.905	35.250	1.00	56.03
	2415	CG1	ILE	559	20.982	12.150	36.968	1.00	58.33
35	2416	CD1	ILE	559	22.212	11.327	36.744	1.00	61.31
65	2417	С	ILE	559	18.939	14.862	35.469	1.00	64.14
	2418	0	ILE	559	18.843	15.792	36.281	1.00	63.80
	2419	N	MET	560	18.964	15.060	34.151	1.00	58.15
40	2420	CA	MET	560	18.871	16.419	33.646	1.00	61.08
	2421	СВ	MET	560	18.753	16.460	32.095	1.00	60.65
	2422	CG	MET	560	20.117	16.352	31.322	1.00	63.74
45	2423	SD	MET	560	20.038	16.357	29.422	1.00	63.49
	2424	CE	MET	560	21.750	16.939	28.970	1.00	61.12
	2425	С	MET	560	17.634	17.014	34.325	1.00	63.02
	2426	0	MET	560	17.666	18.156	34.780	1.00	60.37
50	2427	N	THR	561	16.572	16.217	34.457	1.00	60.33
	2428	CA	THR	561	15.351	16.677	35.123	1.00	60.71
	2429	СВ	THR	561	14.306	15.540	35.292	1.00	58.90
55	2430	OG1	THR	561	14.006	14.959	34.025	1.00	60.27
	2431	CG2	THR	561	13.019	16.080	35.867	1.00	58.67
	2432	С	THR	561	15.616	17.259	36.520	1.00	60.71

TABLE 3 (continued)

				Т	ABLE :	3 (continued	1)	IN MOLE	CULAR B	EPLA	CEME	NT
Г	ATOM	IC COORDINATE	S FOR TH	IE GR	/TIF2/D	EX MODEL	USED	IN MOLE	Z	B	I AT	ГОМ
-	ATOM	ATOM TYPE	RESIDL	JE	#	^_			36.747	1.00	_ [62.74
5		0	THR	5	561	15.390		.429	37.451	1.00		61.67
}	2433	N	THR	:	562	16.111	+	.434	38.860	1.00		62.60
}	2434	CA	THR	!	562	16.387		.821	39.677	1.00		60.58
	2435	СВ	THR		562	16.914		5.721	39.077	1.00		59.96
10	2436	OG1	THR		562	18.152	-	5.292	39.802	1.0	-+	62.71
	2437	CG2	THR		562	15.938		4.616	39.002	1.0		60.58
	2438	C	THR		562	17.487		7.786	40.229	1.0		63.25
15	2439	0	THR		562	17.92		8.032	38.047	1.0		60.71
	2440	N	LEU		563	17.99		8.325		1.0		61.15
	2441	CA	LEU		563	19.14		9.110	38.123			61.40
	2442	СВ	LEU		563	20.00		18.485		+-	00	60.76
20	2443	CG	LEL)	563	21.44		18.268 	37.247		00	59.56
	2444	CD1	LEL	J	563	21.88		17.094 	38.118		.00	62.29
	2445	CD2	LEI	 J	563	21.7	05	18.012 	35.810		.00	60.18
25	2446	C	LEI	 J	563	18.5	42	20.350	37.63		.00	62.51
	2447		LE		563	19.1	15	21.393	37.45		.00	62.12
	2448	N	AS	N	564	17.2	281	20.194	37.27		.00	63.12
	2449	CA	AS	N SN	564	16.5	596	21.312	36.74		1.00	63.80
30	2450		AS	SN	564	15.	703	20.918	35.65			60.00
	2451	CB		5N	564	16.	263	21.124	34.28	-+	1.00	59.72
	2452			 SN	564	17.	269	21.801	34.0		1.00	61.08
35	2453			SN	564	4 15.	577	20.559	33.3		1.00	61.56
50	2454			SN	56	4 15	.740	21.719	37.8		1.00	61.14
	2455			SN	56	4 15	.204	22.818	37.8		1.00	63.63
	245			MET	56	5 15	.483	20.798		+	1.00	60.96
40	245			NET	56	55 14	.643	21.083	39.8	372	1.00	61.63
	245			MET	56	35 14	1.164	19.773			1.00	65.53
	245			MET	56	65 1	2.686	19.546	40.	369	1.00	61.0
45	246			MET	5	65 1	2.013	20.320		903	1.00	
,,,	246			MET	5	65 1	0.337	20.39	2 39.	.357	1.00	+
	24			MET			5.560	21.81	4 40	.802	1.00	
	24			MET			5.162	22.71	3 41	.539	1.00	
50	24	64 0		LEU			6.826	21.44	7 40	.746	1.00	
	24	65 N		LEU			17.794	22.10)1 41	.590	1.00	
	24	166 CA		LEU			19.007	21.18	38 4	.764	1.00	
55		167 CB					20.381	21.4	35 4	2.410	1.00	-+
33	24	468 CG		LEU		566	21.236	6 21.2	09 4	1.243	1.0	0 60.
	2	469 CD	1	LEU								

TABLE 3 (continued)

	ATOM	IIC COORDINATI	S FOR THE	GR/TIF2	DEX MODEL	USED IN MO	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	2470	CD2	LEU	566	20.687	22.805	43.045	1.00	59.08
	2471	C	LEU	566	18.142	23.418	40.952	1.00	61.33
	2472	0	LEU	566	18.373	24.398	41.652	1.00	61.14
10	2473	N	GLY	567	18.140	23.461	39.625	1.00	57.88
	2474	CA	GLY	567	18.436	24.703	38.935	1.00	63.27
	2475	С	GLY	567	17.469	25.785	39.351	1.00	60.49
	2476	0	GLY	567	17.854	26.938	39.514	1.00	61.62
15	2477	N	GLY	568	16.206	25.412	39.526	1.00	63.72
	2478	CA	GLY	568	15.212	26.382	39.936	1.00	60.34
	2479	С	GLY	568	15.617	27.006	41.256	1.00	60.96
20	2480	0	GLY	568	15.913	28.195	41.332	1.00	61.39
	2481	N	ARG	569	15.662	26.196	42.302	1.00	59.63
	2482	CA	ARG	569	16.011	26.692	43.623	1.00	58.74
25	2483	СВ	ARG	569	16.143	25.530	44.588	1.00	62.58
25	2484	CG	ARG	569	14.860	24.767	44.719	1.00	61.89
	2485	CD	ARG	569	14.973	23.794	45.842	1.00	60.95
	2486	NE	ARG	569	16.047	22.854	45.573	1.00	60.03
30	2487	CZ	ARG	569	16.734	22.229	46.513	1.00	60.68
	2488	NH1	ARG	569	16.459	22.447	47.793	1.00	65.06
	2489	NH2	ARG	569	17.697	21.391	46.169	1.00	63.36
35	2490	С	ARG	569	17.261	27.538	43.671	1.00	59.59
55	2491	0	ARG	569	17.395	28.397	44.539	1.00	58.49
	2492	N	GLN	570	18.179	27.299	42.747	1.00	60.12
	2493	CA	GLN	570	19.417	28.069	42.704	1.00	62.83
40	2494	СВ	GLN	570	20.457	27.359	41.852	1.00	64.23
	2495	CG	GLN	570	21.212	26.254	42.529	1.00	60.55
	2496	CD	GLN	570	22.345	25.738	41.674	1.00	61.81
45	2497	OE1	GLN	570	23.046	24.818	42.067	1.00	60.88
	2498	NE2	GLN	570	22.533	26.331	40.499	1.00	56.12
	2499	С	GLN	570	19.195	29.462	42.135	1.00	59.62
	2500	0	GLN	570	19.872	30.409	42.529	1.00	60.45
50	2501	N	VAL	571	18.273	29.571	41.182	1.00	64.99
	2502	CA	VAL	571	17.953	30.851	40.576	1.00	62.98
	2503	СВ	VAL	571	17.141	30.653	39.278	1.00	62.20
55	2504	CG1	VAL	571	16.363	31.906	38.929	1.00	61.93
	2505	CG2	VAL	571	18.090	30.312	38.140	1.00	61.13
	2506	С	VAL	571	17.166	31.658	41.605	1.00	63.93

TABLE 3 (continued)

[ATOM	IC COORDINATE	S FOR THE (DEX MODEL U		ECULAR F	EPLACE	EMENT
}	АТОМ	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
5	2507	0	VAL	571	17.379	32.865	41.763	1.00	65.46
	2508	N	ILE	572	16.271	30.981	42.317	1.00	61.03
	2509	CA	ILE	572	15.483	31.623	43.360	1.00	58.70
10	2510	СВ	ILE	572	14.548	30.605	44.045	1.00	66.72
10	2511	CG2	ILE	572	14.006	31.169	45.350	1.00	58.22
	2512	CG1	ILE	572	13.425	30.220	43.081	1.00	61.85
	2513	CD1	ILE	572	12.411	29.251	43.663	1.00	61.02
15	2514	С	ILE	572	16.456	32.186	44.390	1.00	59.43
	2515	0	ILE	572	16.240	33.257	44.948	1.00	61.61
	2516	N	ALA	573	17.531	31.446	44.628	1.00	62.51
20	2517	CA	ALA	573	18.562	31.844	45.571	1.00	63.19
	2518	СВ	ALA	573	19.467	30.662	45.875	1.00	59.65
	2519	С	ALA	573	19.390	32.994	45.016	1.00	60.08
	2520	0	ALA	573	19.853	33.852	45.765	1.00	61.27
25	2521	N	ALA	574	19.573	33.004	43.700	1.00	62.86
	2522	CA	ALA	574	20.350	34.039	43.027	1.00	62.91
	2523	СВ	ALA	574	20.500	33.690	41.553	1.00	60.40
30	2524	С	ALA	574	19.729	35.426	43.176	1.00	61.54
	2525	0	ALA	574	20.402	36.441	42.977	1.00	62.14
	2526	N	VAL	575	18.447	35.461	43.535	1.00	63.11
	2527	CA	VAL	575	17.721	36.716	43.708	1.00	61.22
35	2528	СВ	VAL	575	16.214	36.502	43.529	1.00	61.11
	2529	CG1	VAL	575	15.500	37.835	43.568	1.00	63.45
	2530	CG2	VAL	575	15.950	35.795	42.218	1.00	55.96
40	2531	С	VAL	575	17.970	37.386	45.063	1.00	61.67
	2532	0	VAL	575	18.242	38.589	45.119	1.00	61.16
	2533	N	LYS	576	17.866	36.618	46.148	1.00	63.44
45	2534	CA	LYS	576	18.103	37.169	47.477	1.00	61.90
45	2535	СВ	LYS	576	17.913	36.120	48.576	1.00	60.65
	2536	CG	LYS	576	16.569	35.385	48.633	1.00	62.95
	2537	CD	LYS	576	16.370	34.812	50.045	1.00	61.64
50	2538	CE	LYS	576	15.453	33.594	50.101	1.00	61.27
	2539	NZ	LYS	576	16.134	32.288	49.785	1.00	60.24
	2540	С	LYS	576	19.554	37.616	47.498	1.00	62.75
<i>55</i>	2541	0	LYS	576	19.966	38.384	48.367	1.00	59.51
55	2542	N	TRP	577	20.320	37.103	46.534	1.00	64.04
	2543	CA	TRP	577	21.741	37.407	46.382	1.00	63.24

TABLE 3 (continued)

	ATOM	IIC COORDINATI	ES FOR THE	GR/TIF2	Z/DEX MODEL	USED IN MO	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	2544	СВ	TRP	577	22.447	36.277	45.610	1.00	61.04
	2545	CG	TRP	577	23.852	36.613	45.166	1.00	62.92
	2546	CD2	TRP	577	24.285	36.919	43.828	1.00	59.92
10	2547	CE2	TRP	577	25.663	37.212	43.892	1.00	60.22
	2548	CE3	TRP	577	23.637	36.978	42.584	1.00	61.13
	2549	CD1	TRP	577	24.956	36.729	45.958	1.00	63.10
	2550	NE1	TRP	577	26.045	37.088	45.201	1.00	58.91
15	2551	CZ2	TRP	577	26.411	37.557	42.763	1.00	58.75
	2552	CZ3	TRP	577	24.378	37.325	41.461	1.00	63.87
	2553	CH2	TRP	577	25.754	37.611	41.559	1.00	60.61
20	2554	O	TRP	577	21.923	38.719	45.634	1.00	60.28
	2555	0	TRP	577	22.654	39.597	46.083	1.00	61.57
	2556	N	ALA	578	21.251	38.837	44.490	1.00	60.75
25	2557	CA	ALA	578	21.338	40.032	43.661	1.00	62.79
23	2558	СВ	ALA	578	20.522	39.847	42.395	1.00	63.55
	2559	С	ALA	578	20.869	41.274	44.409	1.00	60.84
	2560	0	ALA	578	21.347	42.370	44.156	1.00	60.70
30	2561	N	LYS	579	19.937	41.105	45.339	1.00	62.74
	2562	CA	LYS	579	19.423	42.234	46.107	1.00	60.13
	2563	СВ	LYS	579	18.016	41.900	46.640	1.00	60.85
35	2564	CG	LYS	579	16.969	41.709	45.532	1.00	61.81
33	2565	CD	LYS	579	15.725	40.942	45.986	1.00	61.28
	2566	CE	LYS	579	14.910	41.704	47.020	1.00	61.64
	2567	NZ	LYS	579	13.708	40.953	47.492	1.00	62.20
40	2568	С	LYS	579	20.372	42.613	47.252	1.00	60.67
	2569	0	LYS	579	20.251	43.683	47.835	1.00	59.96
	2570	N	ALA	580	21.322	41.738	47.564	1.00	59.98
45	2571	CA	ALA	580	22.288	42.011	48.630	1.00	60.27
	2572	СВ	ALA	580	22.721	40.713	49.304	1.00	64.73
	2573	С	ALA	580	23.505	42.722	48.059	1.00	58.96
	2574	0	ALA	580	24.349	43.229	48.801	1.00	61.59
50	2575	N	ILE	581	23.590	42.738	46.731	1.00	63.39
	2576	CA	ILE	581	24.690	43.380	46.030	1.00	60.52
	2577	СВ	ILE	581	24.789	42.908	44.559	1.00	60.74
55	2578	CG2	ILE	581	25.911	43.650	43.840	1.00	63.37
	2579	CG1	ILE	581	25.069	41.409	44.494	1.00	60.26
	2580	CD1	ILE	581	24.930	40.862	43.091	1.00	61.59

TABLE 3 (continued)

				TABLE	3 (continued)	SED IN MOL	ECULAR BI	FPLACE	MENT
	ATOM	IC COORDINATE		# #	X X	Y	z	В	ATOM
_	ATOM	ATOM TYPE	RESIDUE		24,426	44.873	46.025	1.00	63.62
5	2581	C	ILE	581	23.418	45.329	45.482	1.00	63.59
	2582	0	ILE	581		45.655	46.634	1.00	62.76
	2583	N	PRO	582	25.329		47.270	1.00	63.28
10	2584	CD	PRO	582	26.596	45.257	46.681	1.00	64.52
	2585	CA	PRO	582	25.162	47.104		1.00	62.45
	2586	СВ	PRO	582	26.505	47.589	47.226	1.00	59.21
	2587	CG	PRO	582	26.934	46.473	48.106		62.22
15	2588	С	PRO	582	24.882	47.654	45.298	1.00	61.69
	2589	0	PRO	582	25.518	47.252	44.323	1.00	
	2590	N	GLY	583	23.913	48.560	45.224	1.00	58.26
20	2591	CA	GLY	583	23.565	49.189	43.965	1.00	59.81
	2592	С	GLY	583	22.640	48.446	43.028	1.00	61.92
	2593	0	GLY	583	22.231	49.002	42.024	1.00	58.88
	2594	N	PHE	584	22.302	47.201	43.327	1.00	62.92
25	2595	CA	PHE	584	21.418	46.459	42.438	1.00	61.83
	2596	СВ	PHE	584	21.563	44.953	42.677	1.00	62.46
	2597	CG	PHE	584	20.863	44.104	41.650	1.00	57.96
00	2598	CD1	PHE	584	21.406	43.921	40.390	1.00	63.14
30	2599	CD2	PHE	584	19.646	43.514	41.938	1.00	62.84
	2600	CE1	PHE	584	20.746	43.166	39.437	1.00	61.42
	2601	CE2	PHE	584	18.980	42.759	40.991	1.00	60.47
35	<u> </u>	CZ	PHE	584	19.533	42.585	39.737	1.00	59.28
	2602	C C	PHE	584	19.958	46.883	42.624	1.00	60.13
	2603	0	PHE	584	19.210	46.996	41.653	1.00	61.49
	2604		ARG	585	19.561	47.131	43.870	1.00	60.78
40	2605	N CA	ARG	585	18,190	47.535	44.160	1.00	63.10
	2606	CA	ARG	585	17.832	47.252	45.627	1.00	59.03
	2607	СВ	ARG	585	17.716	 	45.943	1.00	57.77
45	2608	CG	ARG	585	17,222		47.365	1.00	61.69
	2609	CD		585	15.825	 	47.587	1.00	62.10
	2610	NE NE	ARG	585	14.800		46.817	1.00	62.77
	2611	CZ	ARG		14.996		45.744	1.00	60.63
50	2612	NH1	ARG	585	13.569		47.126	1.00	59.26
	2613	NH2	ARG	585	17.952		43.843	+	59.85
	2614	С	ARG	585			43.965	+	61.84
55	2615	0	ARG	585	16.833		43.424		60.92
	2616	N	ASN	586			43.424		62.56
	2617	CA	ASN	586	18.871	51.094	43.090	1.00	1

TABLE 3 (continued)

	ATOM	IIC COORDINATE	S FOR THE	GR/TIF2	DEX MODEL	JSED IN MO	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	2618	СВ	ASN	586	19.987	51.892	43.740	1.00	59.81
	2619	CG	ASN	586	20.079	51.620	45.218	1.00	62.07
	2620	OD1	ASN	586	20.714	50.651	45.641	1.00	62.28
10	2621	ND2	ASN	586	19.415	52.452	46.018	1.00	56.67
	2622	С	ASN	586	18.865	51.271	41.592	1.00	63.34
	2623	0	ASN	586	19.054	52.363	41.068	1.00	60.96
	2624	N	LEU	587	18.648	50.163	40.907	1.00	62.25
15	2625	CA	LEU	587	18.551	50.166	39.467	1.00	60.33
	2626	СВ	LEU	587	19.304	48.971	38.887	1.00	63.97
	2627	CG	LEU	587	20.823	49.075	38.847	1.00	59.84
20	2628	CD1	LEU	587	21.410	47.701	38.948	1.00	62.41
	2629	CD2	LEU	587	21.262	49.748	37.572	1.00	64.48
	2630	С	LEU	587	17.053	50.008	39.259	1.00	61.19
oe.	2631	0	LEU	587	16.355	49.541	40.164	1.00	61.87
25	2632	N	HIS	588	16.556	50.400	38.090	1.00	63.05
	2633	CA	HIS	588	15.130	50.288	37.829	1.00	58.93
	2634	СВ	HIS	588	14.797	50.621	36.371	1.00	62.93
30	2635	CG	HIS	588	13.338	50.871	36.131	1.00	61.44
	2636	CD2	HIS	588	12.679	51.990	35.745	1.00	61.68
	2637	ND1	HIS	588	12.369	49.912	36.344	1.00	59.82
35	2638	CE1	HIS	588	11.178	50.431	36.101	1.00	59.25
33	2639	NE2	HIS	588	11.339	51.691	35.736	1.00	58.14
	2640	С	HIS	588	14.723	48.860	38.128	1.00	61.41
	2641	0	HIS	588	15.515	47.942	37.948	1.00	59.96
40	2642	N	LEU	589	13.492	48.686	38.598	1.00	59.88
	2643	CA	LEU	589	12.974	47.370	38.929	1.00	61.54
	2644	СВ	LEU	589	11.602	47.509	39.599	1.00	60.80
45	2645	CG	LEU	589	10.980	46.337	40.367	1.00	62.36
	2646	CD1	LEU	589	10.643	45.192	39.424	1.00	59.67
	2647	CD2	LEU	589	11.934	45.887	41.449	1.00	61.30
	2648	С	LEU	589	12.867	46.562	37.640	1.00	60.73
50	2649	0	LEU	589	12.841	45.332	37.667	1.00	59.26
	2650	N	ASP	590	12.811	47.254	36.507	1.00	62.77
	2651	CA	ASP	590	12.714	46.574	35.222	1.00	59.61
55	2652	СВ	ASP	590	12.172	47.516	34.154	1.00	60.63
	2653	CG	ASP	590	10.676	47.476	34.060	1.00	60.64
	2654	OD1	ASP	590	10.031	47.099	35.060	1.00	66.03

				TADIE	3 (continued)				
ī		C COORDINATE	S FOR THE (R/TIF2/	DEX MODEL U	SED IN MOL	ECULAR R	EPLACEM	MENT
			RESIDUE	#	X	Υ	Z	В	ATOM
	ATOM	ATOM TYPE	ASP	590	10.140	47.830	32.989	1.00	62.74
'	2655	OD2		590	14.077	46.079	34.801	1.00	64.03
	2656	C	ASP	590	14.194	45.131	34.020	1.00	61.02
	2657	0	ASP	591	15.109	46.734	35.319	1.00	61.76
o	2658	N	ASP	591	16.481	46.364	34.993	1.00	61.72
	2659	CA	ASP	591	17.425	47.557	35.224	1.00	60.28
	2660	СВ	ASP	591	17.174	48.709	34.250	1.00	66.48
	2661	CG	ASP	591	16.782	48.445	33.092	1.00	56.28
15	2662	OD1	ASP	4	17.393	49.877	34.639	1.00	63.43
	2663	OD2	ASP	591	16.937	45.160	35.813	1.00	60.81
	2664	С	ASP	591	17.642	44.292	35.306	1.00	61.99
20	2665	0	ASP	591	16.515	45.120	37.075	1.00	59.60
	2666	N	GLN	592	16.852	44.035	37.981	1.00	59.54
	2667	CA	GLN	592	16.145	44.209	39.327	1.00	60.92
	2668	СВ	GLN	592	16.268	45.571	39.962	1.00	63.19
25	2669	CG	GLN	592	15.991	45.536	41.460	1.00	61.96
	2670	CD	GLN	592	15.303	1.044	41.967	1.00	59.41
	2671	OE1	GLN	592		1	42.176	1.00	61.73
30	2672	NE2	GLN	592	16.522		37.376	1.00	58.77
	2673	С	GLN	592	16.409		37.606	1.00	60.09
	2674	0	GLN	592	17.034		36.611	1.00	61.89
	2675	N	MET	593	15.319		35.977	1.00	60.29
35	2676	CA	MET	593	14.756	11.740	35.768		61.65
	2677	СВ	MET	593			36.969		61.69
	2678	CG	MET	593			36.456		62.68
40	2679	SD	MET	593			36.27		60.78
	2680	CE	MET	593			34.64		59.77
	2681	С	MET	593					61.16
	2682	0	MET	593		12.005			
45	2683	N	THR	594					
	2684	CA	THR	59					
	2685	СВ	THR	59					
50	2686	OG1	THR	59	4 15.72				
	2687		THR	59				~	
	2688		THR	59	4 17.8				
	2689		THR	59					
55	2690		LEU	59					
	2691		LEU	59	95 19.9	24 41.30	8 34.1	84 1.00	02.0

	ATOM	IIC COORDINATE	ES FOR THE (DEX MODEL		LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	АТОМ
5	2692	СВ	LEU	595	20.585	42.172	35.265	1.00	61.42
	2693	CG	LEU	595	20.937	43.615	34.885	1.00	63.11
	2694	CD1	LEU	595	21.680	44.276	36.031	1.00	63.10
10	2695	CD2	LEU	595	21.791	43.634	33.636	1.00	59.45
	2696	С	LEU	595	19.784	39.859	34.660	1.00	61.56
	2697	0	LEU	595	20.438	38.960	34.136	1.00	62.15
	2698	N	LEU	596	18.920	39.629	35.640	1.00	63.33
15	2699	CA	LEU	596	18.728	38.283	36.156	1.00	61.25
	2700	СВ	LEU	596	17.830	38.313	37.387	1.00	59.50
	2701	CG	LEU	596	18.518	38.469	38.735	1.00	63.65
20	2702	CD1	LEU	596	17.484	38.837	39.769	1,00	60.39
	2703	CD2	LEU	596	19.232	37.190	39.109	1.00	62.18
	2704	С	LEU	596	18.159	37.293	35.140	1.00	57.46
25	2705	0	LEU	596	18.306	36.079	35.310	1.00	60.98
25	2706	N	GLN	597	17.507	37.800	34.095	1.00	60.24
	2707	CA	GLN	597	16.915	36.953	33.055	1.00	59.39
	2708	СВ	GLN	597	15.727	37.660	32.413	1.00	63.86
30	2709	CG	GLN	597	14.431	37.528	33.171	1.00	63.29
	2710	CD	GLN	597	13.365	38.466	32.648	1.00	58.84
	2711	OE1	GLN	597	13.389	38.873	31.484	1.00	61.11
35	2712	NE2	GLN	597	12.414	38.811	33.505	1.00	60.83
	2713	С	GLN	597	17.927	36.620	31.973	1.00	60.76
	2714	0	GLN	597	17.829	35.597	31.302	1.00	63.58
	2715	N	TYR	598	18.900	37.501	31.806	1.00	59.20
40	2716	CA	TYR	598	19.923	37.315	30.807	1.00	61.48
	2717	СВ	TYR	598	20.378	38.678	30.311	1.00	64.95
	2718	CG	TYR	598	19.364	39.407	29.466	1.00	59.33
45	2719	CD1	TYR	598	18.119	38.844	29.177	1.00	59.16
	2720	CE1	TYR	598	17.213	39.496	28.344	1.00	62.34
	2721	CD2	TYR	598	19.673	40.645	28.903	1.00	58.48
	2722	CE2	TYR	598	18.771	41.303	28.067	1.00	61.12
50	2723	CZ	TYR	598	17.551	40.721	27.794	1.00	63.18
	2724	ОН	TYR	598	16.680	41.371	26.960	1.00	63.83
	2725	С	TYR	598	21.130	36.532	31.320	1.00	63.31
55	2726	0	TYR	598	21.850	35.900	30.550	1.00	62.59
	2727	N	SER	599	21.356	36.554	32.623	1.00	62.16
	2728	CA	SER	599	22.511	35.859	33.157	1.00	62.80

	ATOM	IC COORDINATE	S EOR THE (3 (continued) DEX MODEL U		ECULAR R	EPLACE	MENT
		ATOM TYPE	RESIDUE	#	X	Υ	Z	В	ATOM
5	ATOM	CB	SER	599	23.420	36.885	33.845	1.00	60.71
	2729	OG	SER	599	22.660	37.845	34.560	1.00	60.75
	2730	C	SER	599	22.245	34.678	34.093	1.00	60.81
	2731	0	SER	599	23.183	34.104	34.636	1.00	57.53
10	2732		TRP	600	20,986	34.293	34.272	1.00	62.86
	2733	CA	TRP	600	20.683	33.187	35.180	1.00	60.85
	2734	CB	TRP	600	19.186	32.813	35.134	1.00	60.84
15	2735	CG	TRP	600	18.745	32.104	33.887	1.00	61.86
	2736	ļ	TRP	600	18.561	30.697	33.726	1.00	61.60
	2737	CD2	TRP	600	18.300	30.461	32.362	1.00	64.40
	2738	CE2	TRP	600	18.599	29.611	34.602	1.00	59.75
20	2739	CE3		600	18.574	32.653	32.650	1.00	60.08
	2740	CD1	TRP	600	18.311	31.672	31.724	1.00	59.13
	2741	NE1	TRP	600	18.085	29.182	31.854	1.00	61.82
25	2742	CZ2	TRP	600	18.383	28.342	34.097	1.00	63.01
	2743	CZ3	TRP	600	18.131	28.137	32.737	1.00	62.11
	2744	CH2	TRP		21.523	31.963	34.848	1.00	61.75
	2745	С	TRP	600	21.973	31.238	35.732	1.00	60.91
30	2746	0	TRP	600	21.761	31.749	33.564	1.00	62.84
	2747	N	MET	601	22.504	30.591	33.172	1.00	60.19
	2748	CA	MET	601		30.133	31.794	1.00	61.93
35	2749	СВ	MET	601	22.084	28.786	31.496	1.00	63.07
	2750	CG	MET	601		27.427	31.465	1.00	62.35
	2751	SD	MET	601	21.595	26.773	32.529	1.00	60.74
	2752	CE	MET	601	22.357	30.766	33.243	1.00	61.35
40	2753	С	MET	601	24.008	29.790	33.391	1.00	62.01
	2754	<u> </u>	MET	601	24.732	32.002	33.146	1.00	59.64
	2755	N	SER	602	24.483	32.002	33.227	1.00	61.85
45	2756	CA	SER	602	25.914	33.637	32.675	1.00	63.12
	2757	СВ	SER	602	26.249		32.746	1.00	63.90
	2758	OG	SER	602	27.643	33.887	34.684	1.00	63.19
	2759	С	SER	602	26.356	32.163	34.976	1.00	59.89
50	2760	0	SER	602	27.478		35.588	1.00	59.89
	2761	N	LEU	603	25.452			1.00	63.05
	2762	CA	LEU	603	25.703		37.027		60.06
<i>55</i>	2763	СВ	LEU	603	24.673		37.748		58.80
	2764	CG	LEU	603	24.752		37.606		59.17
	2765	CD1	LEU	603	23.591	35.588	38.334	1.00	33.17

	ATOM	IIC COORDINATE	S FOR THE (3R/TIF2	DEX MODEL	JSED IN MOI	LECULAR	REPLAC	EMENT
_	ATOM	ATOM TYPE	RESIDUE	#	×	Y	Z	В	MOTA
5	2766	CD2	LEU	603	26.051	35.422	38.175	1.00	63.89
	2767	C	LEU	603	25.624	31.118	37.586	1.00	60.06
	2768	0	LEU	603	26.337	30.753	38.519	1.00	58.30
10	2769	N	MET	604	24.745	30.323	37.004	1.00	62.50
i	2770	CA	MET	604	24.565	28.967	37.468	1.00	61.20
	2771	СВ	MET	604	23.151	28.541	37.166	1.00	59.34
	2772	CG	MET	604	22.185	28.879	38.247	1.00	61.83
15	2773	SD	MET	604	22.610	30.141	39.388	1.00	62.09
	2774	CE	MET	604	22.173	29.285	40.731	1.00	60.68
	2775	С	MET	604	25.578	28.009	36.879	1.00	61.48
20	2776	0	MET	604	25.989	27.048	37.536	1.00	60.91
	2777	N	ALA	605	25.988	28.292	35.646	1.00	58.39
	2778	CA	ALA	605	26.970	27.493	34.943	1.00	62.30
25	2779	СВ	ALA	605	26.934	27.812	33.472	1.00	63.55
25	2780	С	ALA	605	28.341	27.820	35.502	1.00	63.47
	2781	0	ALA	605	29.194	26.944	35.590	1.00	60.63
	2782	N	PHE	606	28.546	29.082	35.882	1.00	60.75
30	2783	CA	PHE	606	29.832	29.536	36.411	1.00	62.24
	2784	СВ	PHE	606	29.951	31.059	36.300	1.00	65.41
	2785	CG	PHE	606	31.316	31.606	36.663	1.00	64.45
35	2786	CD1	PHE	606	32.424	31.375	35.848	1.00	62.88
55	2787	CD2	PHE	606	31.483	32.388	37.802	1.00	61.45
	2788	CE1	PHE	606	33.668	31.919	36.162	1.00	61.89
	2789	CE2	PHE	606	32.725	32.931	38.120	1.00	63.04
40	2790	CZ	PHE	606	33.814	32.696	37.296	1.00	66.17
	2791	С	PHE	606	30.044	29.121	37.851	1.00	64.34
	2792	0	PHE	606	31.154	28.764	38.234	1.00	61.04
45	2793	N	ALA	607	28.997	29.180	38.661	1.00	59.38
	2794	CA	ALA	607	29.144	28.771	40.047	1.00	61.90
	2795	СВ	ALA	607	27.953	29.224	40.865	1.00	58.55
	2796	С	ALA	607	29.269	27.246	40.073	1.00	58.23
50	2797	0	ALA	607	29.912	26.681	40.953	1.00	60.68
	2798	N	LEU	608	28.656	26.571	39.110	1.00	61.24
	2799	CA	LEU	608	28.771	25.121	39.086	1.00	60.02
55	2800	СВ	LEU	608	27.928	24.526	37.958	1.00	62.86
	2801	CG	LEU	608	27.703	23.018	37.693	1.00	60.90
	2802	CD1	LEU	608	27.926	22.923	36.222	1.00	62.46

	ATOM	IIC COORDINATE	S FOR THE C	R/TIF2	DEX MODEL U	JSED IN MOL	ECULAR I	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	2803	CD2	LEU	608	28.630	22.033	38.439	1.00	60.02
	2804	С	LEU	608	30.240	24.783	38.858	1.00	61.60
	2805	0	LEU	608	30.758	23.870	39.479	1.00	62.78
10	2806	N	GLY	609	30.917	25.511	37.974	1.00	63.89
	2807	CA	GLY	609	32.319	25.229	37.746	1.00	60.11
	2808	С	GLY	609	33.143	25.391	39.018	1.00	61.05
	2809	0	GLY	609	34.080	24.631	39.266	1.00	62.95
15	2810	N	TRP	610	32.783	26.374	39.838	1.00	62.51
	2811	CA	TRP	610	33.499	26.652	41.073	1.00	63.33
	2812	СВ	TRP	610	32.917	27.885	41.741	1.00	59.08
20	2813	CG	TRP	610	33.617	28.226	43.008	1.00	60.29
	2814	CD2	TRP	610	34.910	28.821	43.127	1.00	61.56
	2815	CE2	TRP	610	35.194	28.930	44.501	1.00	59.81
	2816	CE3	TRP	610	35.860	29.273	42.200	1.00	57.77
25	2817	CD1	TRP	610	33.178	28.002	44.279	1.00	61.04
	2818	NE1	TRP	610	34.121	28.423	45.183	1.00	63.24
	2819	CZ2	TRP	610	36.387	29.472	44.973	1.00	58.16
30	2820	CZ3	TRP	610	37.048	29.811	42.670	1.00	62.09
	2821	CH2	TRP	610	37.301	29.905	44.043	1.00	63.07
	2822	С	TRP	610	33.516	25.510	42.073	1.00	62.56
0.5	2823	0	TRP	610	34.554	25.205	42.662	1.00	62.85
35	2824	N	ARG	611	32.360	24.896	42.288	1.00	64.01
	2825	CA	ARG	611	32.268	23.784	43.222	1.00	61.00
	2826	СВ	ARG	611	30.803	23.396	43.440	1.00	60.82
40	2827	CG	ARG	611	29.973	24.437	44.180	1.00	60.63
	2828	CD	ARG	611	28.568	23.899	44.480	1.00	63.65
	2829	NE	ARG	611	27.830	23.608	43.250	1.00	60.05
45	2830	CZ	ARG	611	27.228	24.528	42.498	1.00	61.48
45	2831	NH1	ARG	611	27.255	25.811	42.853	1.00	62.30
	2832	NH2	ARG	611	26.638	24.175	41.365	1.00	62.30
	2833	С	ARG	611	33.049	22.606	42.648	1.00	64.56
50	2834	0	ARG	611	33.712	21.854	43.373	1.00	59.80
	2835	N	SER	612	32.971	22.467	41.329	1.00	60.03
	2836	CA	SER	612	33.664	21.403	40.624	1.00	62.69
<i>55</i>	2837	СВ	SER	612	33.312	21.451	39.141	1.00	60.54
	2838	OG	SER	612	31.976	21.038	38.947	1.00	61.90
	2839	С	SER	612	35.163	21.542	40.815	1.00	60.18

	ATOM	IIC COORDINATI	S FOR THE	3R/TIF2	Z/DEX MODEL	USED IN MOI	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	х	Υ	Z	В	ATOM
5	2840	0	SER	612	35.842	20.597	41.209	1.00	62.35
	2841	N	TYR	613	35.663	22.738	40.538	1.00	59.25
	2842	CA	TYR	613	37.074	23.058	40.677	1.00	60.56
10	2843	СВ	TYR	613	37.265	24.534	40.311	1.00	63.42
	2844	CG	TYR	613	38.515	25.215	40.829	1.00	66.04
	2845	CD1	TYR	613	39.771	24.631	40.692	1.00	61.54
	2846	CE1	TYR	613	40.925	25.308	41.091	1.00	59.89
15	2847	CD2	TYR	613	38.443	26.491	41.384	1.00	61.40
	2848	CE2	TYR	613	39.586	27.172	41.782	1.00	60.60
	2849	CZ	TYR	613	40.823	26.577	41.633	1.00	61.69
20	2850	ОН	TYR	613	41.950	27.258	42.022	1.00	57.50
	2851	ပ	TYR	613	37.624	22.765	42.074	1.00	61.96
	2852	0	TYR	613	38.665	22.130	42.219	1.00	62.16
o.e	2853	N	ARG	614	36.913	23.204	43.102	1.00	65.05
25	2854	CA	ARG	614	37.380	23.004	44.463	1.00	59.34
	2855	СВ	ARG	614	36.724	24.017	45.395	1.00	60.68
	2856	CG	ARG	614	36.950	25.445	45.007	1.00	63.19
30	2857	CD	ARG	614	36.724	26.354	46.190	1.00	59.94
	2858	NE	ARG	614	37.945	26.927	46.773	1.00	59.42
	2859	CZ	ARG	614	39.115	27.068	46.145	1.00	60.26
35	2860	NH1	ARG	614	40.141	27.628	46.776	1.00	60.62
33	2861	NH2	ARG	614	39.288	26.619	44.906	1.00	59.69
	2862	С	ARG	614	37.144	21.620	45.019	1.00	60.75
	2863	0	ARG	614	37.899	21.144	45.869	1.00	61.95
40	2864	N	GLN	615	36.093	20.967	44.549	1.00	60.97
	2865	CA	GLN	615	35.780	19.654	45.074	1.00	61.36
	2866	СВ	GLN	615	34.282	19.387	44.957	1.00	59.74
45	2867	CG	GLN	615	33.666	18.942	46.273	1.00	65.30
-	2868	CD	GLN	615	32.416	18.106	46.097	1.00	64.80
	2869	OE1	GLN	615	32.019	17.380	47.007	1.00	59.65
	2870	NE2	GLN	615	31.787	18.204	44.928	1.00	63.88
50	2871	С	GLN	615	36.547	18.523	44.419	1.00	61.87
	2872	0	GLN	615	36.984	17.588	45.093	1.00	61.19
	2873	N	SER	616	36.726	18.615	43.109	1.00	62.69
55	2874	CA	SER	616	37.408	17.559	42.387	1.00	60.64
	2875	СВ	SER	616	36.380	16.632	41.757	1.00	64.46
	2876	OG	SER	616	35.731	17.299	40.688	1.00	63.47

TABLE 3 (continued)

				TABLE 3 (continued) BR/TIF2/DEX MODEL USED IN MOLECULAR REPLACEMENT						
	ATOMI				X YOUEL O	Y Y	z	В	ATOM	
	ATOM	ATOM TYPE	RESIDUE	#		18.047	41.298	1.00	59.36	
5	2877	С	SER	616	38.347	17.424	40.246	1.00	61.79	
	2878	0	SER	616	38.444		41.534	1.00	62.74	
	2879	N	SER	617	39.021	19.163	40.560	1.00	60.01	
10	2880	CA	SER	617	39.972	19.681	40.638	1.00	56.86	
	2881	СВ	SER	617	41.253	18.847		1.00	64.58	
	2882	OG	SER	617	41.690	18.714	41.980		62.31	
	2883	С	SER	617	39.433	19.675	39.119	1.00	60.08	
15	2884	0	SER	617	40.099	19.196	38.196	1.00	62.60	
	2885	N	ALA	618	38.230	20.213	38.931	1.00		
	2886	CA	ALA	618	37.600	20.261	37.612	1.00	62.84	
20	2887	СВ	ALA	618	38.399	21.165	36.676	1.00	61.64	
20	2888	С	ALA	618	37.475	18.866	37.005	1.00	60.94	
	2889	0	ALA	618	37.175	18.725	35.820	1.00	63.12	
	2890	N	ASN	619	37.692	17.836	37.820	1.00	60.02	
25	2891	CA	ASN	619	37.610	16.465	37.330	1.00	60.02	
	2892	CB	ASN	619	38.467	15.523	38.178	1.00	61.65	
	2893	CG	ASN	619	39.881	15.426	37.663	1.00	65.19	
30	2894	OD1	ASN	619	40.813	15.986	38.241	1.00	58.62	
30	2895	ND2	ASN	619	40.047	14.729	36.547	1.00	59.93	
	2896	С	ASN	619	36.205	15.922	37.241	1.00	63.97	
	2897	0	ASN	619	35.933	15.005	36.469	1.00	61.24	
35	2898	N	LEU	620	35.305	16.487	38.028	1.00	61.46	
	2899	CA	LEU	620	33.925	16.044	37.999	1.00	61.85	
	2900	СВ	LEU	620	33.599	15.266	39.271	1.00	63.36	
40	2901	CG	LEU	620	34.516	14.087	39.589	1.00	60.08	
40	2902	CD1	LEU	620	33.992	13.354	40.805	1.00	65.17	
	2903	CD2	LEU	620	34.578	13.145	38.408	1.00	59.21	
	2904	C	LEU	620	33.031	17.266	37.890	1.00	63.79	
45		0	LEU	620	33.520	18.400	37.844	1.00	62.56	
	2905	N	LEU	621	31.728	17.022	37.808	1.00	60.88	
	2906	CA	LEU	621	30.757	18.096	37.739	1.00	60.93	
	2907		LEU	621	29.822	17.930	36.545	1.00	59.84	
50	2908	CB	LEU	621	30.365	18.564	35.272	1.00	61.52	
	2909		LEU	621			34.204	1.00	61.79	
	2910	CD1	LEU	621	+		35.547	1.00	62.82	
55	2911	CD2	LEU	621			39.033	1.00	59.84	
	2912	C		621			39.249	1.00	59.39	
	2913	0	LEU	021				_		

	ATOM	IIC COORDINATE	S FOR THE		E 3 (continued DEX MODEL I	<u> </u>	ECULAR I	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	2914	N	CYS	622	30.191	18.952	39.903	1.00	60.82
	2915	CA	CYS	622	29.562	18.902	41.201	1.00	61.70
	2916	СВ	CYS	622	30.612	19.216	42.276	1.00	61.70
10	2917	SG	CYS	622	32.249	18.417	42.005	1.00	55.72
	2918	С	CYS	622	28.360	19.822	41.333	1.00	60.92
	2919	0	CYS	622	28.394	20.777	42.107	1.00	60.85
	2920	N	PHÉ	623	27.299	19.518	40.584	1.00	62.83
15	2921	CA	PHE	623	26.057	20.298	40.618	1.00	61.52
	2922	СВ	PHE	623	24.944	19.578	39.827	1.00	63.16
	2923	CG	PHE	623	25.174	19.562	38.332	1.00	64.30
20	2924	CD1	PHE	623	25.946	18.565	37.734	1.00	62.97
	2925	CD2	PHE	623	24.667	20.580	37.527	1.00	59.44
	2926	CE1	PHE	623	26.214	18.585	36.354	1.00	60.51
	2927	CE2	PHE	623	24.931	20.607	36.152	1.00	61.00
25	2928	CZ	PHE	623	25.705	19.609	35.566	1.00	58.20
	2929	С	PHE	623	25.631	20.512	42.074	1.00	62.99
	2930	0	PHE	623	25.433	21.650	42.520	1.00	59.63
30	2931	N	ALA	624	25.489	19.404	42.798	1.00	60.19
	2932	CA	ALA	624	25.146	19.426	44.220	1.00	60.71
	2933	СВ	ALA	624	23.953	18.540	44.505	1.00	65.97
35	2934	С	ALA	624	26.384	18.877	44.921	1.00	60.87
33	2935	0	ALA	624	27.278	18.328	44.276	1.00	61.88
	2936	N	PRO	625	26.467	19.023	46.248	1.00	63.71
	2937	CD	PRO	625	25.561	19.666	47.207	1.00	59.14
40	2938	CA	PRO	625	27.658	18.496	46.924	1.00	61.58
	2939	СВ	PRO	625	27.528	19.055	48.346	1.00	64.33
	2940	CG	PRO	625	26.534	20.184	48.212	1.00	61.92
45	2941	С	PRO	625	27.593	16.960	46.904	1.00	61.41
	2942	0	PRO	625	28.630	16.280	46.869	1.00	60.49
	2943	N	ASP	626	26.353	16.450	46.913	1.00	61.38
	2944	CA	ASP	626	26.036	15.016	46.914	1.00	61.12
50	2945	СВ	ASP	626	25.050	14.730	48.038	1.00	59.24
	2946	CG	ASP	626	23.643	15.219	47.706	1.00	60.93
	2947	OD1	ASP	626	23.518	16.271	47.036	1.00	62.15
55	2948	OD2	ASP	626	22.658	14.564	48.112	1.00	64.40
	2949	С	ASP	626	25.405	14.562	45.587	1.00	62.42
	2950	0	ASP	626	24.526	13.703	45.568	1.00	60.54

TABLE 3 (continued)

	ATOM	IIC COORDINAT	ES FOR THE	GR/TIF:	2/DEX MODEL	USED IN MC	LECULAR	REPLAC	EMENT
_	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	В	АТОМ
5	2951	N	LEU	627	25.834	15.152	44.483	1.00	60.30
	2952	CA	LEU	627	25.293	14.792	43.183	1.00	61.38
	2953	СВ	LEU	627	24.007	15.569	42.915	1.00	59.07
10	2954	CG	LEU	627	23.311	15.347	41.573	1.00	62.30
	2955	CD1	LEU	627	22.632	13.994	41.525	1.00	59.92
	2956	CD2	LEU	627	22.300	16.440	41.381	1.00	64.94
15	2957	С	LEU	627	26.349	15.143	42.152	1.00	59.24
15	2958	0	LEU	627	26.321	16.224	41.550	1.00	60.06
	2959	Ν	ILE	628	27.284	14.219	41.958	1.00	59.89
	2960	CA	ILE	628	28.380	14.422	41.030	1.00	60.40
20	2961	СВ	ILE	628	29.729	14.056	41.692	1.00	62.59
	2962	CG2	ILE	628	30.850	14.267	40.716	1.00	59.44
	2963	CG1	ILE	628	29.990	14.940	42.909	1.00	61.86
25	2964	CD1	ILE	628	29.045	14.711	44.049	1.00	62.51
25	2965	С	ILE	628	28.234	13.609	39.750	1.00	64.22
	2966	0	ILE	628	28.028	12.402	39.787	1.00	60.75
İ	2967	N	ILE	629	28.323	14.272	38.608	1.00	60.54
30	2968	CA	ILE	629	28.239	13.540	37.370	1.00	62.37
	2969	СВ	ILE	629	28.044	14.470	36.165	1.00	65.41
	2970	CG2	ILE	629	28.371	13.733	34.877	1.00	61.37
35	2971	CG1	ILE	629	26.619	15.024	36.170	1.00	63.05
	2972	CD1	ILE	629	25.623	14.193	36.983	1.00	60.63
	2973	С	ILE	629	29.575	12.839	37.270	1.00	60.22
	2974	0	ILE	629	30.580	13.454	36.929	1.00	58.35
40	2975	N	ASN	630	29.580	11.556	37.611	1.00	60.04
ļ	2976	CA	ASN	630	30.776	10.726	37.570	1.00	60.83
	2977	СВ	ASN	630	30.674	9.637	38.632	1.00	62.77
45	2978	CG	ASN	630	29.368	8.868	38.556	1.00	60.79
	2979	OD1	ASN	630	29.051	8.248	37.541	1.00	61.32
	2980	ND2	ASN	630	28.603	8.908	39.632	1.00	62.90
	2981	С	ASN	630	30.949	10.085	36.197	1.00	60.61
50	2982	0	ASN	630	30.016	10.041	35.403	1.00	62.50
	2983	N	GLU	631	32.151	9.592	35.926	1.00	63.77
	2984	CA	GLU	631	32.472	8.954	34.653	1.00	60.65
55	2985	СВ	GLU	631	33.804	8.219	34.786	1.00	62.06
	2986	CG	GLU	631	34.021	7.046	33.841	1.00	63.14
	2987	CD	GLU	631	35.255	6.229	34.232	1.00	59.80

	ATOM	IIC COORDINATI	ES FOR THE (2/DEX MODEL I	·	ECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	х	Υ	z	В	ATOM
5	2988	OE1	GLU	631	36.349	6.836	34.405	1.00	61.43
	2989	OE2	GLU	631	35.122	4.988	34.369	1.00	58.68
	2990	С	GLU	631	31.381	7.986	34.254	1.00	61.07
10	2991	0	GLU	631	30.879	8.014	33.132	1.00	61.02
	2992	N	GLN	632	31.011	7.126	35.186	1.00	63.77
٠	2993	CA	GLN	632	29.978	6.151	34.916	1.00	61.66
	2994	СВ	GLN	632	29.732	5.285	36.159	1.00	61.41
15	2995	CG	GLN	632	30.936	4.415	36.579	1.00	65.26
	2996	CD	GLN	632	31.704	3.828	35.393	1.00	64.37
	2997	OE1	GLN	632	31.109	3.357	34.420	1.00	60.73
20	2998	NE2	GLN	632	33.034	3.847	35.480	1.00	59.46
	2999	С	GLN	632	28.695	6.851	34.466	1.00	61.12
	3000	0	GLN	632	28.055	6.417	33.512	1.00	62.13
25	3001	N	ARG	633	28.334	7.946	35.134	1.00	59.27
23	3002	CA	ARG	633	27.125	8.682	34.767	1.00	61.29
	3003	СВ	ARG	633	26.821	9.786	35.775	1.00	59.65
	3004	CG	ARG	633	26.235	9.274	37.069	1.00	62.42
30	3005	CD	ARG	633	25.223	10.258	37.602	1.00	60.12
	3006	NE	ARG	633	24.486	9.732	38.743	1.00	61.79
	3007	CZ	ARG	633	24.739	10.038	40.011	1.00	64.89
35	3008	NH1	ARG	633	25.717	10.878	40.308	1.00	60.64
	3009	NH2	ARG	633	24.014	9.501	40.984	1.00	62.92
	3010	С	ARG	633	27.151	9.274	33.360	1.00	61.86
	3011	0	ARG	633	26.086	9.401	32.750	1.00	59.63
40	3012	N	MET	634	28.337	9.643	32.855	1.00	64.70
	3013	CA	MET	634	28.465	10.180	31.497	1.00	60.91
	3014	СВ	MET	634	29.921	10.556	31.189	1.00	59.90
45	3015	CG	MET	634	30.438	11.791	31.950	1.00	60.63
	3016	SD	MET	634	30.042	13.425	31.192	1.00	60.35
	3017	CE	MET	634	30.985	14.531	32.251	1.00	64.03
	3018	С	MET	634	27.956	9.086	30.543	1.00	60.81
50	3019	0	MET	634	28.727	8.350	29.899	1.00	62.71
	3020	N	THR	635	26.622	8.989	30.531	1.00	62.02
	3021	CA	THR	635	25.820	8.059	29.738	1.00	62.69
55	3022	СВ	THR	635	24.313	8.140	30.124	1.00	62.75
	3023	OG1	THR	635	24.150	7.893	31.528	1.00	60.63
	3024	CG2	THR	635	23.486	7.141	29.303	1.00	61.43

TABLE 3 (continued)

ATOM ATOM TYPE RESIDUE F		ATOM	ATOMIC COORDINATES FOR THE GR/TIF2/DEX MODEL USED IN MOLECULAR REPLACEMENT								
5 3025 C THR 635 25.912 8.531 28.307 1.00 61.30 3026 O THR 635 26.510 7.876 27.454 1.00 59.84 3027 N LEU 636 25.315 9.694 28.077 1.00 61.92 3029 CB LEU 636 25.270 10.317 26.765 1.00 60.40 3030 CG LEU 636 22.901 10.968 26.868 1.00 63.75 3031 CD1 LEU 636 22.623 8.760 26.811 1.00 59.92 3033 C LEU 636 26.347 11.377 26.441 1.00 63.57 3033 C LEU 636 26.834 12.087 27.327 1.00 63.59 3034 O LEU 636 26.749 10.631 23.987 1.00 61.79 3035 N					T 1				L.		
3026	5			THR	635	25.912	8.531	28.307	1.00	61.30	
10 10 10 10 10 10 10 10				THR	635	26.510	7.876	27.454	1.00	59.84	
10 3028 CA LEU 636 25.270 10.317 26.765 1.00 60.40 3029 CB LEU 636 23.901 10.968 26.586 1.00 63.75 3030 CG LEU 636 22.623 8.760 26.811 1.00 65.04 3031 CD1 LEU 636 22.623 8.760 26.811 1.00 55.92 3033 CD2 LEU 636 22.623 8.760 26.811 1.00 55.92 3033 CD2 LEU 636 22.623 8.760 26.811 1.00 55.92 3033 CD2 LEU 636 22.634 12.087 27.327 1.00 58.28 3034 O LEU 636 26.347 11.377 26.441 1.00 63.57 3034 O LEU 636 26.347 11.377 26.441 1.00 63.57 3035 N PRO 637 26.754 11.471 25.155 1.00 61.79 3036 CD PRO 637 26.754 11.471 25.155 1.00 61.79 3036 CD PRO 637 27.744 12.476 24.794 1.00 60.89 3037 CA PRO 637 27.344 12.476 24.794 1.00 60.89 3039 CG PRO 637 27.855 10.482 23.490 1.00 63.07 3039 CG PRO 637 27.855 10.482 23.490 1.00 63.07 3041 O PRO 637 27.035 11.932 23.490 1.00 63.30 3041 O PRO 637 27.035 11.4549 25.255 1.00 61.80 3041 O PRO 637 27.036 14.531 23.736 1.00 63.35 3042 N CYS 638 25.605 13.523 25.193 1.00 63.35 3042 N CYS 638 24.557 14.549 25.225 1.00 63.35 3044 CB CYS 638 24.557 14.549 25.225 1.00 63.89 3044 CB CYS 638 24.557 14.549 25.225 1.00 63.89 3044 CB CYS 638 24.557 14.549 25.225 1.00 63.35 3044 CB CYS 638 24.557 14.549 25.225 1.00 63.35 3042 N MET 639 24.794 12.023 25.351 1.00 62.48 3045 CB CYS 638 24.557 14.549 25.225 1.00 65.89 3045 SG CYS 638 24.557 14.549 25.225 1.00 65.89 3045 SG CYS 638 24.557 14.549 25.225 1.00 65.89 3045 SG CYS 638 24.557 14.549 25.225 1.00 65.89 3045 SG CYS 638 24.557 14.549 25.225 1.00 65.35 3045 CB MET 639 24.794 12.794 29.647 1.00 59.95 305 305 CB MET 639 24.794 12.794 29.647 1.00 59.95 305 CB MET 639 24.794 12.794 29.647 1.00 59.95 305 CB MET 639 24.794 12.794 29.647 1.00 59.95 305 CB MET 639 24.794 14.458 28.870 1.00 59.95 305 CB MET 639 24.794 14.458 33.000 1.00 60.73 305 CB MET 639 24.794 14.458 33.000 1.00 59.95 305 CB MET 639 24.794 14.458 33.000 1.00 59.95 305 CB MET 639 24.794 14.458 30.000 1.00 59.95 305 CB MET 639 24.794 14.458 30.000 1.00 59.95 305 CB MET 639 24.794 14.458 30.000 1.00 59.95 305 CB MET 639 24.794 14.456 27.793 1.00 59.95 305 CB MET 639 24.794 14.458 30.000 1.00 5				LEU	636	25.315	9.694	28.077	1.00	61.92	
3029 CB	40				636	25.270	10.317	26.765	1.00	60.40	
3030 CG	10			LEU	636	23.901	10.968	26.586	1.00	63.75	
15 3031				LEU	636	22.679	10.156	26.167	1.00	61.04	
15 3032				LEU	636	22.623	8.760	26.811	1.00	59.92	
20 3033 C LEU 636 26.347 11.377 26.441 1.00 63.57 3034 O LEU 636 26.834 12.087 27.327 1.00 58.28 3035 N PRO 637 26.754 11.471 25.155 1.00 61.79 3036 CD PRO 637 26.479 10.631 23.987 1.00 63.46 3037 CA PRO 637 27.744 12.476 24.794 1.00 60.89 3038 CB PRO 637 27.855 10.482 23.398 1.00 63.07 3039 CG PRO 637 27.855 10.482 23.398 1.00 62.95 3040 C PRO 637 27.855 10.482 23.398 1.00 62.95 3041 O PRO 637 27.038 14.531 23.736 1.00 60.33 3042 N CYS 638 25.605 13.523 25.193 1.00 63.35 3042 N CYS 638 24.557 14.549 25.225 1.00 58.89 3044 CB CYS 638 22.633 12.668 24.333 1.00 61.93 3044 CB CYS 638 22.633 12.668 24.333 1.00 61.93 3046 C CYS 638 22.633 12.668 24.333 1.00 61.93 3046 C CYS 638 24.925 14.896 26.642 1.00 59.34 3049 CA MET 639 24.773 13.878 27.486 1.00 62.55 3050 CB MET 639 24.773 13.878 27.486 1.00 62.55 3050 CB MET 639 24.797 13.021 31.126 1.00 59.57 3055 CG MET 639 24.286 14.281 33.307 1.00 62.55 3056 N TYR 640 27.244 14.409 27.782 1.00 60.93 3050 CB MET 639 26.567 14.451 28.934 1.00 60.93 3055 C MET 639 24.286 14.281 33.307 1.00 60.93 3055 C MET 639 24.286 14.281 33.307 1.00 60.93 3056 N TYR 640 27.244 14.409 27.782 1.00 60.93 3055 CA TYR 640 28.622 14.866 27.693 1.00 62.32 3550 CG TYR 640 30.961 14.446 26.910 1.00 59.57 3050 CD TYR 640 30.961 14.446 26.910 1.00 59.57 3050 CD TYR 640 30.961 14.446 26.910 1.00 59.57 3050 CD TYR 640 30.961 14.446 26.910 1.00 59.57 3050 CD TYR 640 30.961 14.446 26.910 1.00 59.57 3050 CD TYR 640 30.961 14.446 26.910 1.00 59.57 3050 CD	15			LEU	636	21.476	11.011	26.536	1.00	55.92	
3034			С	LEU	636	26.347	11.377	26.441	1.00	63.57	
20			0	LEU	636	26.834	12.087	27.327	1.00	58.28	
3036 CD	20	ļ	N	PRO	637	26.754	11.471	25.155	1.00	61.79	
3037	20		CD	PRO	637	26.479	10.631	23.987	1.00	63.46	
25			CA	PRO	637	27.744	12.476	24.794	1.00	60.89	
25 3039 CG PRO 637 27.855 10.482 23.398 1.00 62.95 3040 C PRO 637 26.780 13.647 24.551 1.00 61.80 3041 O PRO 637 27.038 14.531 23.736 1.00 60.33 3042 N CYS 638 25.605 13.523 25.193 1.00 63.35 3043 CA CYS 638 24.557 14.549 25.225 1.00 58.89 3044 CB CYS 638 22.633 12.668 24.333 1.00 61.93 3045 SG CYS 638 22.633 12.668 24.333 1.00 61.93 3046 C CYS 638 24.925 14.896 26.642 1.00 59.34 3047 O CYS 638 25.366 16.010 26.968 1.00 61.64 3048 N MET 639 24.773 13.878 27.486 1.00 59.95 3050 CB MET 639 24.794 12.794 29.647 1.00 56.25 3051 CG MET 639 23.446 14.225 31.808 1.00 60.73 3052 SD MET 639 23.446 14.225 31.808 1.00 60.73 3053 CE MET 639 24.286 14.281 33.307 1.00 59.61 3054 C MET 639 24.286 14.281 33.307 1.00 59.57 3055 O MET 639 27.074 14.783 30.000 1.00 59.57 3058 CB TYR 640 27.244 14.409 27.782 1.00 60.93 3059 CG TYR 640 30.961 14.466 27.693 1.00 62.32 3060 CD1 TYR 640 30.961 15.327 27.862 1.00 59.75 3060 CD1 TYR 640 30.961 15.327 27.862 1.00 59.75 3060 CD1 TYR 640 30.961 15.327 27.862 1.00 59.75 3060 CD1 TYR 640 30.961 15.327 27.862 1.00 59.75 3060 CD1 TYR 640 30.961 15.327 27.862 1.00 59.75 3060 CD1 TYR 640 30.961 15.327 27.862 1.00 59.75 3060 CD1 TYR 640 30.961 15.327 27.862 1.00 59.75 3060 CD1 TYR 640 30.961 15.327 27.862 1.00 59.75 3060 CD1 TYR 640 30.961 15.327 27.862 1.00 59.75 3060 CD1 TYR 640 30.961 15.327 27.862 1.00 59.75 3060 CD1 TYR 640 30.961 15.327 27.862 1.00 59.75 3060 CD1 TYR 640 30.961 15.327 27.862 1.00 59.75 3060 CD1 TYR 640 30.961 15.327 27.862 1.00			СВ	PRO	637	28.363	11.932	23.490	1.00	63.07	
3040	25		CG	PRO	637	27.855	10.482	23.398	1.00	62.95	
3041 O PRO 637 27.038 14.531 23.736 1.00 60.33 3042 N CYS 638 25.605 13.523 25.193 1.00 63.35 3043 CA CYS 638 24.557 14.549 25.225 1.00 58.89 3044 CB CYS 638 23.122 14.023 25.351 1.00 62.48 3045 SG CYS 638 22.633 12.668 24.333 1.00 61.93 3046 C CYS 638 24.925 14.896 26.642 1.00 59.34 3047 O CYS 638 25.366 16.010 26.968 1.00 61.64 3048 N MET 639 24.773 13.878 27.486 1.00 59.95 3050 CB MET 639 24.794 12.794 29.647 1.00 56.25 3051 CG MET 639 24.597 13.021 31.126 1.00 59.11 3052 SD MET 639 23.446 14.225 31.808 1.00 60.73 3053 CE MET 639 24.286 14.281 33.307 1.00 59.91 3054 C MET 639 24.286 14.281 33.307 1.00 59.57 3055 O MET 639 27.074 14.783 30.000 1.00 59.57 3056 N TYR 640 27.244 14.409 27.782 1.00 60.93 3059 CG TYR 640 30.961 14.446 26.910 1.00 62.32 50 3059 CG TYR 640 30.961 14.446 26.910 1.00 59.75 3050 CD1 TYR 640 31.797 14.687 28.006 1.00 59.75			c	PRO	637	26.780	13.647	24.551	1.00	61.80	
3042 N CYS 638 25.605 13.523 25.193 1.00 63.35 3043 CA CYS 638 24.557 14.549 25.225 1.00 58.89 3044 CB CYS 638 23.122 14.023 25.351 1.00 62.48 3045 SG CYS 638 22.633 12.668 24.333 1.00 61.93 3046 C CYS 638 24.925 14.896 26.642 1.00 59.34 3047 O CYS 638 25.366 16.010 26.968 1.00 61.64 3048 N MET 639 24.773 13.878 27.486 1.00 59.95 3050 CB MET 639 24.794 12.794 29.647 1.00 56.25 3051 CG MET 639 24.597 13.021 31.126 1.00 59.11 3052 SD MET 639 23.446 14.225 31.808 1.00 60.73 3053 CE MET 639 24.286 14.281 33.307 1.00 60.73 3054 C MET 639 26.567 14.451 28.934 1.00 60.92 3055 O MET 639 27.074 14.783 30.000 1.00 59.57 50 3056 N TYR 640 27.244 14.409 27.782 1.00 60.93 3057 CA TYR 640 29.585 13.827 27.110 1.00 62.45 3059 CG TYR 640 30.961 14.446 26.910 1.00 59.75 50 3059 CG TYR 640 30.961 14.446 26.910 1.00 59.75 3059 CG TYR 640 31.797 14.687 28.006 1.00 59.75			0	PRO	637	27.038	14.531	23.736	1.00	60.33	
3043 CA CYS 638 24.557 14.549 25.225 1.00 58.89 3044 CB CYS 638 23.122 14.023 25.351 1.00 62.48 3045 SG CYS 638 22.633 12.668 24.333 1.00 61.93 3046 C CYS 638 24.925 14.896 26.642 1.00 59.34 3047 O CYS 638 25.366 16.010 26.968 1.00 61.64 3048 N MET 639 24.773 13.878 27.486 1.00 59.95 3050 CB MET 639 25.094 14.058 28.870 1.00 62.51 3051 CG MET 639 24.597 13.021 31.126 1.00 59.11 3052 SD MET 639 23.446 14.225 31.808 1.00 60.73 3053 CE MET 639 24.286 14.281 33.307 1.00 59.61 3054 C MET 639 26.567 14.451 28.934 1.00 60.92 3055 O MET 639 27.074 14.783 30.000 1.00 59.57 3056 N TYR 640 27.244 14.409 27.782 1.00 60.93 3058 CB TYR 640 29.585 13.827 27.110 1.00 61.41 3059 CG TYR 640 30.961 14.466 26.910 1.00 62.45 3060 CD1 TYR 640 31.797 14.687 28.006 1.00 59.75	30	_	N	CYS	638	25.605	13.523	25.193	1.00	63.35	
3044 CB CYS 638 23.122 11.05 20.00 61.93 3045 SG CYS 638 22.633 12.668 24.333 1.00 61.93 3046 C CYS 638 24.925 14.896 26.642 1.00 59.34 3047 O CYS 638 25.366 16.010 26.968 1.00 61.64 3048 N MET 639 24.773 13.878 27.486 1.00 59.95 3050 CB MET 639 24.794 12.794 29.647 1.00 56.25 3051 CG MET 639 24.597 13.021 31.126 1.00 59.11 3052 SD MET 639 23.446 14.225 31.808 1.00 60.73 3053 CE MET 639 24.286 14.281 33.307 1.00 59.61 3054 C MET 639 26.567 14.451 28.934 1.00 60.92 3055 O MET 639 27.074 14.783 30.000 1.00 59.57 50 3056 N TYR 640 27.244 14.409 27.782 1.00 60.93 3058 CB TYR 640 29.585 13.827 27.110 1.00 62.45 3059 CG TYR 640 30.961 14.446 26.910 1.00 62.45 3060 CD1 TYR 640 30.961 14.446 26.910 1.00 62.45		3043	CA	CYS	638	24.557	14.549	25.225	1.00	58.89	
3046		3044	СВ	CYS	638	23.122	14.023	25.351	1.00	62.48	
3046 C CYS 638 24.95 14.890 20.042 1.00 61.64 3047 O CYS 638 25.366 16.010 26.968 1.00 61.64 3048 N MET 639 24.773 13.878 27.486 1.00 59.95 3049 CA MET 639 25.094 14.058 28.870 1.00 62.51 3050 CB MET 639 24.794 12.794 29.647 1.00 56.25 3051 CG MET 639 24.597 13.021 31.126 1.00 59.11 3052 SD MET 639 23.446 14.225 31.808 1.00 60.73 3053 CE MET 639 24.286 14.281 33.307 1.00 59.61 3054 C MET 639 26.567 14.451 28.934 1.00 60.92 3055 O MET 639 27.074 14.783 30.000 1.00 59.57 3056 N TYR 640 27.244 14.409 27.782 1.00 60.93 3057 CA TYR 640 28.622 14.866 27.693 1.00 62.32 3059 CG TYR 640 30.961 14.446 26.910 1.00 62.45 3060 CD1 TYR 640 31.797 14.687 28.006 1.00 59.75		3045	SG	CYS	638	22.633	12.668	24.333	1.00	61.93	
3047 O CTS 638 25.560 15.67 15	35	3046	С	CYS	638	24.925	14.896	26.642	1.00	59.34	
40 3049 CA MET 639 25.094 14.058 28.870 1.00 62.51 3050 CB MET 639 24.794 12.794 29.647 1.00 56.25 3051 CG MET 639 24.597 13.021 31.126 1.00 59.11 3052 SD MET 639 23.446 14.225 31.808 1.00 60.73 3053 CE MET 639 24.286 14.281 33.307 1.00 59.61 3054 C MET 639 26.567 14.451 28.934 1.00 60.92 3055 O MET 639 27.074 14.783 30.000 1.00 59.57 50 3056 N TYR 640 27.244 14.409 27.782 1.00 60.93 3057 CA TYR 640 29.585 13.827 27.110 1.00 62.32 3059 CG TYR 640 30.961 14.468 26.910 1.00 62		3047	0	CYS	638	25.366	16.010	26.968	1.00	61.64	
40 3049 CA MET 639 23.034 14.060 29.647 1.00 56.25 3050 CB MET 639 24.794 12.794 29.647 1.00 59.11 3051 CG MET 639 24.597 13.021 31.126 1.00 59.11 3052 SD MET 639 23.446 14.225 31.808 1.00 60.73 3053 CE MET 639 24.286 14.281 33.307 1.00 59.61 3054 C MET 639 26.567 14.451 28.934 1.00 60.92 3055 O MET 639 27.074 14.783 30.000 1.00 59.57 50 3056 N TYR 640 27.244 14.409 27.782 1.00 60.93 3057 CA TYR 640 29.585 13.827 27.110 1.00 62.32 3059 </td <td></td> <td>3048</td> <td>N</td> <td>MET</td> <td>639</td> <td>24.773</td> <td>13.878</td> <td>27.486</td> <td>1.00</td> <td>59.95</td>		3048	N	MET	639	24.773	13.878	27.486	1.00	59.95	
3050 CB MET 639 24.597 13.021 31.126 1.00 59.11 3051 CG MET 639 24.597 13.021 31.126 1.00 60.73 3052 SD MET 639 23.446 14.225 31.808 1.00 60.73 3053 CE MET 639 24.286 14.281 33.307 1.00 59.61 3054 C MET 639 26.567 14.451 28.934 1.00 60.92 3055 O MET 639 27.074 14.783 30.000 1.00 59.57 3056 N TYR 640 27.244 14.409 27.782 1.00 60.93 3057 CA TYR 640 28.622 14.866 27.693 1.00 62.32 3058 CB TYR 640 29.585 13.827 27.110 1.00 61.41 3059 CG TYR 640 30.961 14.446 26.910 1.00 62.45 3060 CD1 TYR 640 31.797 14.687 28.006 1.00 59.75	40	3049	CA	MET	639	25.094	14.058	28.870	1.00	62.51	
3051 CG MET 639 23.446 14.225 31.808 1.00 60.73 3053 CE MET 639 24.286 14.281 33.307 1.00 59.61 3054 C MET 639 26.567 14.451 28.934 1.00 60.92 3055 O MET 639 27.074 14.783 30.000 1.00 59.57 3056 N TYR 640 27.244 14.409 27.782 1.00 60.93 3057 CA TYR 640 28.622 14.866 27.693 1.00 62.32 3058 CB TYR 640 29.585 13.827 27.110 1.00 61.41 3059 CG TYR 640 30.961 14.446 26.910 1.00 62.45 3060 CD1 TYR 640 31.797 14.687 28.006 1.00 59.75		3050	СВ	MET	639	24.794	12.794	29.647	1.00	56.25	
3052 SD MET 639 24.286 14.281 33.307 1.00 59.61 3053 CE MET 639 26.567 14.451 28.934 1.00 60.92 3055 O MET 639 27.074 14.783 30.000 1.00 59.57 3056 N TYR 640 27.244 14.409 27.782 1.00 60.93 3057 CA TYR 640 28.622 14.866 27.693 1.00 62.32 3058 CB TYR 640 29.585 13.827 27.110 1.00 61.41 3059 CG TYR 640 30.961 14.446 26.910 1.00 62.45 3060 CD1 TYR 640 31.797 14.687 28.006 1.00 59.75		3051	CG	MET	639	24.597	13.021	31.126	1.00	59.11	
3053 CE MET 639 24.286 14.281 35.307 1.00 59.51 3054 C MET 639 26.567 14.451 28.934 1.00 60.92 3055 O MET 639 27.074 14.783 30.000 1.00 59.57 3056 N TYR 640 27.244 14.409 27.782 1.00 60.93 3057 CA TYR 640 28.622 14.866 27.693 1.00 62.32 3058 CB TYR 640 29.585 13.827 27.110 1.00 61.41 3059 CG TYR 640 30.961 14.446 26.910 1.00 62.45 3060 CD1 TYR 640 31.797 14.687 28.006 1.00 59.75		3052	SD	MET	639	23.446	14.225	31.808	1.00	60.73	
3054 C MET 639 20.507 14.161 25.00 159.57 3055 O MET 639 27.074 14.783 30.000 1.00 59.57 3056 N TYR 640 27.244 14.409 27.782 1.00 60.93 3057 CA TYR 640 28.622 14.866 27.693 1.00 62.32 3058 CB TYR 640 29.585 13.827 27.110 1.00 61.41 3059 CG TYR 640 30.961 14.446 26.910 1.00 62.45 3060 CD1 TYR 640 31.797 14.687 28.006 1.00 59.75	45	3053	CE	MET	639	24.286	14.281	33.307	1.00	59.61	
3055 O MET 639 27.674 11.00 60.93 3056 N TYR 640 27.244 14.409 27.782 1.00 60.93 3057 CA TYR 640 28.622 14.866 27.693 1.00 62.32 3058 CB TYR 640 29.585 13.827 27.110 1.00 61.41 3059 CG TYR 640 30.961 14.446 26.910 1.00 62.45 3060 CD1 TYR 640 31.797 14.687 28.006 1.00 59.75		3054	С	MET	639	26.567	14.451	28.934	1.00	60.92	
3056 N TYR 640 28.622 14.866 27.693 1.00 62.32 3057 CA TYR 640 29.585 13.827 27.110 1.00 61.41 3058 CB TYR 640 30.961 14.446 26.910 1.00 62.45 3060 CD1 TYR 640 31.797 14.687 28.006 1.00 59.75		3055	0	MET	639	27.074	14.783	30.000	1.00	59.57	
3057 CA TYR 640 20.022 13.000 27.110 1.00 61.41 3058 CB TYR 640 29.585 13.827 27.110 1.00 61.41 3059 CG TYR 640 30.961 14.446 26.910 1.00 62.45 3060 CD1 TYR 640 31.797 14.687 28.006 1.00 59.75	50	3056	N	TYR	640	27.244	14.409	27.782	1.00	60.93	
3058 CB TYR 640 25.363 10.627 21.700 62.45 3059 CG TYR 640 30.961 14.446 26.910 1.00 62.45 3060 CD1 TYR 640 31.797 14.687 28.006 1.00 59.75		3057	CA	TYR	640	28.622	14.866	27.693	1.00	62.32	
3069 CG 17R 040 CCCCC 17R 28.006 1.00 59.75		3058	СВ	TYR	640	29.585	13.827	27.110	1.00		
3060 CD1 TYR 640 31.79/ 14.687 28.006 1.00 39.75		3059	CG	TYR	640	30.961	14.446	26.910	1.00	62.45	
3061 CE1 TYR 640 32.996 15.372 27.862 1.00 59.57	55	3060	CD1	TYR	640	31.797	14.687	28.006	1.00		
		3061	CE1	TYR	640	32.996	15.372	27.862	1.00	59.57	

TABLE 3 (continued)

	ATOM	IC COORDINATE	S FOR THE (GR/TIF2	DEX MODEL	USED IN MOI	ECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	3062	CD2	TYR	640	31.376	14.906	25.651	1.00	59.20
	3063	CE2	TYR	640	32.578	15.594	25.495	1.00	64.39
	3064	CZ	TYR	640	33.381	15.827	26.608	1.00	62.16
10	3065	ОН	TYR	640	34.554	16.542	26.485	1.00	62.68
	3066	С	TYR	640	28.650	16.082	26.764	1.00	60.42
	3067	0	TYR	640	29.264	17.104	27.075	1.00	62.43
	3068	N	ASP	641	27.985	15.960	25.619	1.00	63.11
15	3069	CA	ASP	641	27.946	17.029	24.617	1.00	64.46
	3070	СВ	ASP	641	26.821	16.780	23.617	1.00	64.30
	3071	CG	ASP	641	27.232	17.039	22.196	1.00	61.31
20	3072	OD1	ASP	641	26.317	17.192	21.353	1.00	59.56
	3073	OD2	ASP	641	28.453	17.079	21.917	1.00	63.20
	3074	C	ASP	641	27.729	18.401	25.222	1.00	61.02
25	3075	0	ASP	641	28.073	19.417	24.617	1.00	60.07
25	3076	N	GLN	642	27.124	18.417	26.406	1.00	63.30
	3077	CA	GLN	642	26.801	19.653	27.115	1.00	60.83
	3078	СВ	GLN	642	25.298	19.837	27.180	1.00	63.77
30	3079	CG	GLN	642	24.570	18.590	26.781	1.00	59.93
	3080	CD	GLN	642	24.905	18.192	25.345	1.00	61.47
	3081	OE1	GLN	642	24.656	17.063	24.922	1.00	59.50
35	3082	NE2	GLN	642	25.462	19.135	24.580	1.00	60.78
55	3083	С	GLN	642	27.353	19.664	28.518	1.00	60.90
	3084	0	GLN	642	27.430	20.714	29.136	1.00	60.17
	3085	N	CYS	643	27.678	18.497	29.052	1.00	61.78
40	3086	CA	CYS	643	28.291	18.491	30.362	1.00	62.44
	3087	СВ	CYS	643	28.348	17.080	30.963	1.00	66.84
	3088	SG	CYS	643	27.004	16.704	32.130	1.00	64.90
45	3089	С	CYS	643	29.691	18.976	30.015	1.00	61.39
	3090	0	CYS	643	30.377	19.587	30.836	1.00	61.37
	3091	N	LYS	644	30.093	18.726	28.768	1.00	63.75
	3092	CA	LYS	644	31.415	19.128	28.308	1.00	59.22
50	3093	СВ	LYS	644	31.708	18.603	26.889	1.00	57.84
	3094	CG	LYS	644	31.163	19.462	25.740	1.00	63.56
	3095	CD	LYS	644	31.637	18.994	24.350	1.00	63.09
55	3096	CE	LYS	644	33.034	19.520	23.983	1.00	63.23
[3097	NZ	LYS	644	34.141	19.025	24.872	1.00	61.68
	3098	С	LYS	644	31.560	20.641	28.319	1.00	61.63

TABLE 3 (continued)

	ATOM	IC COORDINATE	S FOR THE (GR/TIF2/	DEX MODEL US	SED IN MOL	ECULAR R	EPLACE	MENT
		ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
5	ATOM	0	LYS	644	32.672	21.157	28.379	1.00	62.21
	3099	N	HIS	645	30.444	21.359	28.267	1.00	59.46
	3100		HIS	645	30.518	22.809	28.261	1.00	61.40
	3101	CA	HIS	645	29.338	23.380	27.490	1.00	62.01
10	3102	CB	HIS	645	29.548	23.365	26.009	1.00	61.11
	3103	CG	HIS	645	30.591	23.797	25.261	1.00	62.23
	3104	CD2	 	645	28.628	22.845	25.123	1.00	62.89
15	3105	ND1	HIS	645	29.097	22.957	23.892	1.00	60.35
,,,	3106	CE1	HIS	645	30.285	23.532	23.948	1.00	58.72
	3107	NE2	HIS	 	30.626	23.413	29.652	1.00	60.22
	3108	С	HIS	645	31.097	24.535	29.804	1.00	62.73
20	3109	0	HIS	645	30.205	22.672	30.668	1.00	61.99
	3110	N	MET	646		23.173	32.027	1.00	60.02
	3111	CA	MET	646	30.320	22.574	32.963	1.00	60.39
25	3112	СВ	MET	646	29.235	22.502	32.348	1.00	59.13
25	3113	CG	MET	646	27.846	21.807	33.298	1.00	59.17
	3114	SD	MET	646	26.508		31.946	1.00	56.97
	3115	CE	MET	646	25.617	21.251	32.539	1.00	61.22
30	3116	С	MET	646	31.712	22.761	33.304	1.00	59.33
	3117	0	MET	646	32.329	23.495		1.00	61.22
	3118	N	LEU	647	32.207	21.597	32.110	1.00	59.88
	3119	CA	LEU	647	33.539	21.146	32.526	┼──	64.23
35	3120	СВ	LEU	647	33.858	19.754	31.962	1.00	60.79
	3121	CG	LEU	647	33.205	18.494	32.529	1.00	61.72
	3122	CD1	LEU	647	33.267	17.423	31.475	1.00	62.44
40	3123	CD2	LEU	647	33.901	18.030	33.803	1.00	
	3124	С	LEU	647	34.571	22.141	31.997	1.00	62.52
	3125	0	LEU	647	35.664		32.558	1.00	59.55
	3126	N	TYR	648	34.220	22.816	30.907		61.57
45	3127	CA	TYR	648	35.126	23.785	30.320		63.01
	3128	СВ	TYR	648	34.597	24.318	28.997		
	3129	CG	TYR	648	35.477	25.427	28.499		+
50	3130	CD1	TYR	648	36.741	25.148	27.989		
	3131	CE1	TYR	648	37.617	26.170	27.642		+
	3132	CD2	TYR	648	35.104	26.764	28.646	1.00	
	3133	CE2	TYR	648	35.974	27.795	28.305	1.00	_
55	3134	CZ	TYR	648	37.226	27.490	27.800	1.00	
	3135	OH	TYR	648	38.09	7 28.500	27.48	1.00	58.6

TABLE 3 (continued)

	ATOM	IIC COORDINATI	ES FOR THE	GR/TIF2	DEX MODEL	USED IN MO	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
5	3136	С	TYR	648	35.380	24.969	31.241	1.00	60.50
	3137	0	TYR	648	36.510	25.423	31.369	1.00	59.77
	3138	N	VAL	649	34.331	25.490	31.865	1.00	61.19
10	3139	CA	VAL	649	34.521	26.625	32.754	1.00	62.10
	3140	СВ	VAL	649	33.164	27.231	33.257	1.00	63.18
	3141	CG1	VAL	649	32.254	27.546	32.089	1.00	60.09
45	3142	CG2	VAL	649	32.476	26.282	34.202	1.00	59.25
15	3143	С	VAL	649	35.313	26.111	33.941	1.00	63.47
	3144	0	VAL	649	36.188	26.791	34.465	1.00	58.78
	3145	N	SER	650	35.010	24.884	34.340	1.00	61.57
20	3146	CA	SER	650	35.664	24.258	35.471	1.00	62.45
	3147	СВ	SER	650	35.032	22.901	35.727	1.00	63.87
	3148	OG	SER	650	35.312	22.468	37.037	1.00	57.30
25	3149	С	SER	650	37.152	24.102	35.217	1.00	61.59
25	3150	0	SER	650	37.966	24.254	36.123	1.00	59.77
	3151	N	SER	651	37.506	23.796	33.977	1.00	61.81
	3152	CA	SER	651	38.904	23.629	33.615	1.00	59.44
30	3153	СВ	SER	651	39.029	23.147	32.175	1.00	61.10
	3154	OG	SER	651	40.285	23.527	31.635	1.00	62.25
	3155	С	SER	651	39.638	24.942	33.755	1.00	62.21
35	3156	0	SER	651	40.736	24.994	34.299	1.00	59.39
55	3157	N	GLU	652	39.019	25.998	33.248	1.00	60.68
	3158	CA	GLU	652	39.590	27.333	33.296	1.00	62.47
	3159	СВ	GLU	652	38.683	28.294	32.534	1.00	62.00
40	3160	CG	GLU	652	38.551	27.905	31.087	1.00	60.93
	3161	CD	GLU	652	39.896	27.841	30.412	1.00	62.60
	3162	OE1	GLU	652	40.389	28.912	29.994	1.00	61.37
45	3163	OE2	GLU	652	40.466	26.727	30.323	1.00	62.86
	3164	С	GLU	652	39.803	27.829	34.719	1.00	59.21
	3165	0	GLU	652	40.843	28.404	35.040	1.00	60.26
	3166	N	LEU	653	38.812	27.613	35.573	1.00	62.17
50	3167	CA	LEU	653	38.939	28.039	36.949	1.00	61.29
	3168	СВ	LEU	653	37.630	27.816	37.702	1.00	62.27
	3169	CG	LEU	653	36.539	28.833	37.355	1.00	63.87
55	3170	CD1	LEU	653	35.239	28.428	38.009	1.00	60.88
	3171	CD2	LEU	653	36.969	30.220	37.805	1.00	66.93
ĺ	3172	С	LEU	653	40.065	27.252	37.579	1.00	61.64

TABLE 3 (continued)

	ATOMIC COORDINATES FOR THE GR/TIF2/DEX MODEL USED IN MOLECULAR REPLACEMENT								
	<u> </u>	ATOM TYPE	RESIDUE	#	X	Υ	Z	В	ATOM
5	ATOM	O	LEU	653	40.705	27.711	38.526	1.00	62.53
-	3173		HIS	654	40.316	26.067	37.035	1.00	59.14
	3174	N	HIS	654	41.386	25.219	37.534	1.00	63.27
	3175	CA	HIS	654	41.122	23.768	37.166	1.00	63.36
10	3176	CB	HIS	654	42.203	22.842	37.610	1.00	63.44
	3177	CG	HIS	654	43.298	22.379	36.965	1.00	60.81
	3178	CD2	HIS	654	42.281	22.360	38.898	1.00	62.60
15	3179	ND1	HIS	654	43.382	21.642	39.027	1.00	56.60
	3180	CE1	HIS	654	44.017	21.639	37.870	1.00	63.72
	3181	NE2	HIS	654	42.719	25.654	36.928	1.00	61.86
	3182	С	 	654	43.691	25.906	37.636	1.00	63.73
20	3183	0	HIS	655	42.744	25.732	35.605	1.00	62.82
	3184	N	ARG	655	43.929	26.133	34.867	1.00	60.68
	3185	CA	ARG	655	43.559	26.326	33.394	1.00	56.53
25	3186	СВ	ARG		44.577	27.074	32.574	1.00	62.54
	3187	CG	ARG	655	43.921	27.870	31.451	1.00	58.99
	3188	CD	ARG	655	44.865	28.859	30.951	1.00	62.01
	3189	NE	ARG	655	46.081	28.544	30.503	1.00	59.65
30	3190	CZ	ARG	655	46.475	27.269	30.488	1.00	58.86
	3191	NH1	ARG	655	 	29.491	30.103	1.00	59.91
	3192	NH2	ARG	655	46.926	27.419	35.430	1.00	59.56
35	3193	С	ARG	655	44.525	27.524	35.595	1.00	60.27
55	3194	0	ARG	655	45.741	28.389	35.735	1.00	64.27
	3195	N	LEU	656	43.664	29.687	36.250	1.00	58.78
	3196	CA	LEU	656	44.102		35.833	1.00	62.45
40	3197	СВ	LEU	656	43.099	30.751	34.328	1.00	57.52
	3198	CG	LEU	656	43.072	30.957	33.943	1.00	65.67
	3199	CD1	LEU	656	41.832	31.704	33.895	1.00	62.85
45	3200	CD2	LEU	656	44.305	31.714	37.757	1.00	61.09
45	3201	С	LEU	656		 	38.244		62.48
	3202	0	LEU	656	+		38.244		59.08
	3203	N	GLN	657		+			63.09
50	3204	CA	GLN	657			39.936		58.16
	3205	СВ	GLN	657		 	40.307		63.46
	3206	CG	GLN	657			40.286	-	59.6
E E	3207	CD	GLN	657			41.225	+	
55	3208	OE1	GLN	657			40.785		
	3209	NE2	GLN	657	45.442	26.547	42.529	1.00	39.1

TABLE 3 (continued)

	ATOM	IIC COORDINATI	S FOR THE	GR/TIF2	DEX MODEL	USED IN MO	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
5	3210	С	GLN	657	43.335	29.932	40.611	1.00	59.19
	3211	0	GLN	657	43.926	30.539	41.498	1.00	61.22
	3212	N	VAL	658	42.113	30.249	40.192	1.00	61.76
10	3213	CA	VAL	658	41.355	31.376	40.734	1.00	61.31
	3214	СВ	VAL	658	39.970	31.503	40.043	1.00	60.50
	3215	CG1	VAL	658	39.211	32.664	40.623	1.00	59.45
	3216	CG2	VAL	658	40.132	31.716	38.559	1.00	61.37
15	3217	С	VAL	658	41.115	31.283	42.240	1.00	58.30
	3218	0	VAL	658	40.838	30.208	42.764	1.00	56.60
	3219	N	SER	659	41.214	32.418	42.928	1.00	60.76
20	3220	CA	SER	659	40.979	32.465	44.369	1.00	59.93
	3221	СВ	SER	659	41.873	33.507	45.047	1.00	59.20
	3222	OG	SER	659	41.582	34.817	44.608	1.00	62.34
26	3223	C	SER	659	39.518	32.789	44.656	1.00	62.94
25	3224	0	SER	659	38.784	33.247	43.780	1.00	58.10
	3225	N	TYR	660	39.097	32.563	45.893	1.00	61.68
	3226	CA	TYR	660	37.720	32.808	46.250	1.00	62.54
30	3227	СВ	TYR	660	37.481	32.526	47.717	1.00	64.73
	3228	CG	TYR	660	36.014	32.432	48.044	1.00	56.73
	3229	CD1	TYR	660	35.144	31.742	47.200	1.00	59.62
35	3230	CE1	TYR	660	33.817	31.568	47.524	1.00	61.29
55	3231	CD2	TYR	660	35.507	32.957	49.223	1.00	64.06
	3232	CE2	TYR	660	34.176	32.789	49.557	1.00	61.23
	3233	CZ	TYR	660	33.336	32.085	48.705	1.00	60.34
40	3234	ОН	TYR	660	32.032	31.840	49.064	1.00	61.17
	3235	С	TYR	660	37.250	34.204	45.954	1.00	61.20
	3236	0	TYR	660	36.162	34.383	45.433	1.00	65.37
45	3237	N	GLU	661	38.057	35.199	46.290	1.00	61.50
	3238	CA	GLU	661	37.657	36.574	46.052	1.00	58.24
	3239	СВ	GLU	661	38.598	37.523	46.765	1.00	64.85
	3240	CG	GLU	661	38.276	37.577	48.225	1.00	61.43
50	3241	CD	GLU	661	39.283	38.360	48.991	1.00	60.83
	3242	OE1	GLU	661	39.961	39.204	48.365	1.00	59.88
i	3243	OE2	GLU	661	39.387	38.143	50.219	1.00	59.48
55	3244	С	GLU	661	37.548	36.918	44.591	1.00	58.50
	3245	0	GLU	661	36.573	37.536	44.178	1.00	62.37
į	3246	N	GLU	662	38.529	36.516	43.798	1.00	63.69

	ATOMIC COORDINATES FOR THE GR/TIF2/DEX MODEL USED IN MOLECULAR REPLACEMENT									
		ATOM TYPE	RESIDUE	#	X	Υ	Z	В	ATOM	
5	ATOM	CA	GLU	662	38.453	36.784	42.374	1.00	59.27	
	3247	CB	GLU	662	39.646	36.158	41.657	1.00	57.91	
	3248	CG	GLU	662	40.974	36.663	42.122	1.00	62.43	
	3249		GLU	662	42.104	35.948	41.436	1.00	62.15	
10	3250	CD OF1	GLU	662	41.969	34.732	41.223	1.00	57.52	
	3251	OE1	GLU	662	43.128	36.585	41.119	1.00	61.99	
	3252	OE2	GLU	662	37.138	36.188	41.831	1.00	61.83	
15	3253	С	GLU	662	36.492	36.771	40.963	1.00	63.75	
	3254	0	TYR	663	36.751	35.031	42.361	1.00	59.76	
	3255	N	TYR	663	35.525	34.336	41.962	1.00	62.22	
	3256	CA	TYR	663	35.439	32.992	42.694	1.00	58.01	
20	3257	СВ	TYR	663	34.073	32.342	42.676	1.00	62.53	
	3258	CG		663	33.536	31.831	41.499	1.00	60.26	
	3259	CD1	TYR	663	32.298	31.201	41.495	1.00	62.40	
25	3260	CE1	TYR	663	33.330	32.212	43.850	1.00	58.63	
	3261	CD2	TYR		32.096	31.590	43.855	1.00	62.25	
	3262	CE2	TYR	663	31.587	31.084	42.676	1.00	63.25	
	3263	CZ	TYR	663	30.372	30.448	42.682	1.00	62.04	
30	3264	ОН	TYR	663	34.240	35.125	42.228	1.00	61.08	
	3265	С	TYR	663	33.429	35.343	41.322	1.00	58.41	
	3266	0	TYR	663	34.055	35.528	43.480	1.00	60.59	
35	3267	N .	LEU	664	32.876	36.270	43.884	1.00	61.06	
55	3268	CA	LEU	664		36.618	45.369	1.00	63.96	
	3269	СВ	LEU	664	32.976	 	46.343	1.00	63.81	
	3270	CG	LEU	664	33.063	 	47.750	1.00	60.79	
40	3271	CD1	LEU	664	33.322		46.283	1.00	58.66	
	3272	CD2	LEU	664	31.786	+	43.057	1.00	62.83	
	3273	С	LEU	664	32.692	 	42.812	1.00	59.88	
45	3274	0	LEU	664	31.558		42.632	1.00	59.97	
10	3275	N	CYS	665	33.809		41.831	1.00	63.59	
	3276	CA	CYS	665	33.805		41.869	1.00	60.16	
	3277	СВ	CYS	665			43,441	1.00	62.94	
50	3278	SG	CYS	665	20.475	+	40.388	+	60.0	
	3279	С	CYS	665			39.735		57.49	
	3280	0	CYS	665			39.735		60.4	
55	3281	N	MET	666					61.3	
55	3282	CA	MET	666			38.510			
	3283	СВ	MET	666	34.73	36.517	38.077	1.00		

	ATOM	IIC COORDINATE	S FOR THE	GR/TIF2	DEX MODEL	USED IN MO	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	3284	CG	MET	666	36.156	36.993	37.902	1.00	63.77
	3285	SD	MET	666	37.274	35.592	37.856	1.00	59.75
	3286	CE	MET	666	37.139	35.071	36.150	1.00	62.17
10	3287	С	MET	666	32.338	37.078	38.411	1.00	61.52
	3288	0	MET	666	31.681	37.255	37.388	1.00	60.47
	3289	2	LYS	667	31.869	36.433	39.475	1.00	61.04
4.6	3290	CA	LYS	667	30.516	35.898	39.482	1.00	62.69
15	3291	СВ	LYS	667	30.261	35.036	40.726	1.00	61.46
	3292	CG	LYS	667	28.966	34.228	40.671	1.00	59.84
	3293	CD	LYS	667	28.678	33.497	41.975	1.00	63.25
20	3294	CE	LYS	667	28.483	34.471	43.123	1.00	59.23
	3295	NZ	LYS	667	27.639	33.891	44.192	1.00	61.97
	3296	С	LYS	667	29.554	37.066	39.461	1.00	63.05
25	3297	0	LYS	667	28.459	36.945	38.942	1.00	60.65
23	3298	N	THR	668	29.981	38.201	40.011	1.00	61.58
	3299	CA	THR	668	29.146	39.398	40.061	1.00	60.37
	3300	СВ	THR	668	29.609	40.357	41.149	1.00	59.81
30	3301	OG1	THR	668	29.776	39.634	42.370	1.00	59.26
	3302	CG2	THR	668	28.588	41.442	41.365	1.00	57.52
	3303	С	THR	668	29.174	40.146	38.746	1.00	60.69
35	3304	0	THR	668	28.184	40.749	38.348	1.00	61.79
	3305	N	LEU	669	30.320	40.111	38.076	1.00	58.82
	3306	CA	LEU	669	30.479	40.774	36.786	1.00	60.62
	3307	СВ	LEU	669	31.947	40.863	36.412	1.00	60.70
40	3308	CG	LEU	669	32.673	41.944	37.192	1.00	61.83
	3309	CD1	LEU	669	34.131	41.996	36.761	1.00	63.30
	3310	CD2	LEU	669	31.981	43.275	36.953	1.00	62.82
45	3311	С	LEU	669	29.736	40.028	35.707	1.00	63.57
	3312	0	LEU	669	29.574	40.521	34.599	1.00	63.32
	3313	N	LEU	670	29.303	38.823	36.034	1.00	62.04
	3314	CA	LEU	670	28.558	38.030	35.087	1.00	64.79
50	3315	СВ	LEU	670	28.662	36.542	35.432	1.00	63.41
	3316	CG	LEU	670	29.983	35.838	35.078	1.00	62.66
	3317	CD1	LEU	670	29.918	34.407	35.554	1.00	61.38
55	3318	CD2	LEU	670	30.239	35.867	33.580	1.00	61.74
	3319	С	LEU	670	27.111	38.495	35.114	1.00	60.65
	3320	0	LEU	670	26.405	38.402	34.119	1.00	60.67

TABLE 3 (continued)

	TABLE 3 (continued) ATOMIC COORDINATES FOR THE GR/TIF2/DEX MODEL USED IN MOLECULAR REPLACEMENT ATOMIC COORDINATES FOR THE GR/TIF2/DEX MODEL USED IN MOLECULAR REPLACEMENT ATOMIC COORDINATES FOR THE GR/TIF2/DEX MODEL USED IN MOLECULAR REPLACEMENT										
			RESIDUE	#	X	Υ	Z	В	ATOM		
5	ATOM	ATOM TYPE	LEU	671	26.673	39.008	36.257	1.00	60.80		
,	3321	N	LEU	671	25.308	39.500	36.386	1.00	60.13		
	3322	CA	LEU	671	24.977	39.756	37.852	1.00	55.83		
	3323	CB	LEU	671	23.636	40.403	38.198	1.00	59.73		
10	3324	CG	LEU	671	22.495	39.498	37.819	1.00	58.32		
	3325	CD1	LEU	671	23.606	40.677	39.673	1.00	59.37		
	3326	CD2	LEU	671	25.178	40.804	35.613	1.00	60.50		
15	3327	C	 	671	24.076	41.295	35.377	1.00	61.24		
15	3328		LEU	672	26.320	41.354	35.219	1.00	59.65		
	3329	N	LEU	672	26.355	42.613	34.492	1.00	62.17		
	3330	CA	LEU	672	27.128	43.650	35.309	1.00	60.10		
20	3331	СВ	LEU	672	26.917	43.688	36.822	1.00	65.92		
	3332	CG	LEU	672	27.728	44.819	37.407	1.00	60.54		
	3333	CD1	LEU		25.460	43.885	37.148	1.00	58.59		
05	3334	CD2	LEU	672	27.027		33.131	1.00	62.29		
25	3335	С	LEU	672	27.489	 	32.554	1.00	61.76		
	3336	0	LEU	672	27.070		32.613	1.00	60.43		
	3337	N	SER	673		+	31.342	1.00	60.60		
30	3338	CA	SER	673			31.317	1.00	60.81		
	3339	СВ	SER	673			31.987	1.00	56.49		
	3340	OG	SER	673			30.074	1.00	60.41		
05	3341	С	SER	673			29.020	1.00	60.96		
35	3342	0	SER	673			30.160	1.00	62.26		
	3343	N	SER	674	01.00		28.995	1.00	62.20		
	3344	CA	SER	674	24.05		28.298	1.00	61.34		
40	3345	СВ	SER	674	00.70		29.221	1.00	62.88		
	3346	OG	SER	67			29.402		60.51		
	3347	С	SER	67			30.376		62.02		
45	3348	0	SER	67			28.650		61.79		
45	3349	N	VAL	67					61.6		
	3350	CA	VAL	67					59.5		
	3351	СВ	VAL	67					62.2		
50	3352	CG1	VAL		75 23.3						
	3353	CG2	VAL		75 23.5		·				
	3354	С	VAL		75 21.3	10.004		- 			
55	3355	0	VAL	-+-	75 21.7						
55	3356	N	PRO		76 20.0						
	3357	CD	PRO	6	76 19.3	45.132					

	ATOM	IIC COORDINATE	S FOR THE (GR/TIF2	DEX MODEL	JSED IN MOL	ECULAR I	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	3358	CA	PRO	676	19.191	44.880	26.593	1.00	62.22
	3359	СВ	PRO	676	17.896	45.494	27.156	1.00	58.53
	3360	CG	PRO	676	18.322	46.117	28.488	1.00	60.68
10	3361	С	PRO	676	19.839	45.746	25.514	1.00	58.14
	3362	0	PRO	676	20.824	46.435	25.792	1.00	61.96
	3363	N	LYS	677	19.309	45.710	24.293	1.00	60.64
	3364	CA	LYS	677	19.906	46.501	23.215	1.00	59.47
15	3365	СВ	LYS	677	19.025	46.521	21.970	1.00	61.69
	3366	CG	LYS	677	19.782	46.912	20.707	1.00	61.32
	3367	CD	LYS	677	18.832	47.051	19.514	1.00	61.48
20	3368	CE	LYS	677	19.604	47.129	18.198	1.00	62.13
	3369	NZ	LYS	677	20.435	45.908	17.952	1.00	60.25
	3370	O	LYS	677	20.145	47.929	23.686	1.00	59.29
05	3371	0	LYS	677	21.248	48.235	24.158	1.00	63.94
25	3372	N	ASP	678	19.129	48.796	23.580	1.00	61.98
	3373	CA	ASP	678	19.302	50.178	24.028	1.00	61.19
	3374	СВ	ASP	678	18.178	51.083	23.506	1.00	60.11
30	3375	CG	ASP	678	18.515	52.582	23.647	1.00	60.40
	3376	OD1	ASP	678	18.311	53.325	22.652	1.00	60.21
	3377	OD2	ASP	678	18.980	53.011	24.745	1.00	61.19
35	3378	С	ASP	678	19.395	50.284	25.558	1.00	61.02
33	3379	0	ASP	678	18.592	50.955	26.210	1.00	61.94
	3380	N	GLY	679	20.398	49.604	26.108	1.00	58.42
	3381	CA	GLY	679	20.649	49.605	27.534	1.00	56.97
40	3382	С	GLY	679	19.449	49.444	28.438	1.00	56.85
	3383	0	GLY	679	18.362	49.031	28.028	1.00	59.44
	3384	N	LEU	680	19.674	49.788	29.696	1.00	63.29
45	3385	CA	LEU	680	18.655	49.704	30.727	1.00	62.45
	3386	СВ	LEU	680	19.297	49.181	32.017	1.00	64.86
	3387	CG	LEU	680	20.118	47.895	31.832	1.00	59.84
:	3388	CD1	LEU	680	20.946	47.595	33.068	1.00	59.62
50	3389	CD2	LEU	680	19.181	46.760	31.543	1.00	61.01
	3390	С	LEU	680	18.056	51.090	30.955	1.00	60.58
	3391	0	LEU	680	18.433	52.063	30.298	1.00	62.60
55	3392	N	LYS	681	17.120	51.174	31.888	1.00	62.27
	3393	CA	LYS	681	16.486	52.441	32.197	1.00	63.23
	3394	СВ	LYS	681	15.146	52.211	32.901	1.00	59.95

TABLE 3 (continued)

	ATOM	IIC COORDINATI	S FOR THE	GR/TIF2	DEX MODEL	USED IN MOI	ECULAR	REPLAC	EMENT
_	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	В	ATOM
5	3395	CG	LYS	681	14.188	51.417	32.034	1.00	60.87
	3396	CD	LYS	681	12.837	51.183	32.665	1.00	61.02
	3397	CE	LYS	681	12.004	50.295	31.740	1.00	64.07
10	3398	NZ	LYS	681	10.616	50.060	32.218	1.00	58.77
	3399	С	LYS	681	17.414	53.242	33.072	1.00	60.18
	3400	0	LYS	681	17.373	54.462	33.069	1.00	63.10
	3401	N	SER	682	18.278	52.554	33.802	1.00	60.92
15	3402	CA	SER	682	19.214	53.240	34.681	1.00	62.50
	3403	СВ	SER	682	18.953	52.786	36.113	1.00	62.86
	3404	OG	SER	682	17.564	52.589	36.296	1.00	61.69
20	3405	С	SER	682	20.682	52.993	34.272	1.00	58.65
	3406	0	SER	682	21.558	52.781	35.120	1.00	60.76
	3407	N	GLN	683	20.924	53.053	32.961	1.00	60.04
0.5	3408	CA	GLN	683	22.241	52.840	32.348	1.00	61.19
25	3409	СВ	GLN	683	22.156	53.127	30.850	1.00	59.58
	3410	CG	GLN	683	23.397	52.757	30.056	1.00	62.33
	3411	CD	GLN	683	23.606	51.259	29.955	1.00	62.33
30	3412	OE1	GLN	683	22.651	50.502	29.759	1.00	62.13
	3413	NE2	GLN	683	24.858	50.823	30.065	1.00	61.30
	3414	С	GLN	683	23.397	53.655	32.934	1.00	61.70
35	3415	0	GLN	683	24.561	53.335	32.719	1.00	62.18
33	3416	N	GLU	684	23.083	54.710	33.666	1.00	64.02
	3417	CA	GLU	684	24.117	55.539	34.257	1.00	60.92
	3418	СВ	GLU	684	23.541	56.904	34.590	1.00	62.70
40	3419	CG	GLU	684	22.396	56.780	35.574	1.00	62.30
	3420	CD	GLU	684	21.884	58.112	36.063	1.00	61.33
	3421	OE1	GLU	684	21.260	58.120	37.153	1.00	61.85
45	3422	OE2	GLU	684	22.092	59.135	35.363	1.00	62.66
	3423	С	GLU	684	24.582	54.867	35.534	1.00	61.21
ĺ	3424	0	GLU	684	25.741	54.979	35.924	1.00	63.65
	3425	N	LEU	685	23.659	54.181	36.197	1.00	62.46
50	3426	CA	LEU	685	23.992	53.487	37.429	1.00	60.48
	3427	СВ	LEU	685	22.731	53.265	38.269	1.00	62.31
	3428	CG	LEU	685	22.992	53.036	39.764	1.00	59.19
55	3429	CD1	LEU	685	23.700	54.245	40.360	1.00	59.86
	3430	CD2	LEU	685	21.684	52.795	40.485	1.00	61.02
[3431	С	LEU	685	24.657	52.148	37.086	1.00	61.95

	ATOM	IIC COORDINATI	ES FOR THE		E 3 (continued 2/DEX MODEL I	<u> </u>	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	х	Υ	Z	В	ATOM
5	3432	0	LEU	685	25.524	51.662	37.804	1.00	61.31
	3433	N	PHE	686	24.264	51.566	35.964	1.00	60.07
	3434	CA	PHE	686	24.832	50.302	35.560	1.00	60.10
10	3435	СВ	PHE	686	24.147	49.785	34.311	1.00	61.65
	3436	CG	PHE	686	24.500	48.372	33.990	1.00	62.45
	3437	CD1	PHE	686	24.148	47.352	34.860	1.00	58.40
	3438	CD2	PHE	686	25.204	48.057	32.839	1.00	57.88
15	3439	CE1	PHE	686	24.493	46.038	34.589	1.00	58.59
	3440	CE2	PHE	686	25.558	46.741	32.558	1.00	63.31
	3441	CZ	PHE	686	25.201	45.733	33.433	1.00	61.15
20	3442	C	PHE	686	26.321	50.423	35.287	1.00	61.88
	3443	0	PHE	686	27.150	49.890	36.038	1.00	60.58
	3444	N	ASP	687	26.657	51.113	34.199	1.00	62.94
25	3445	CA	ASP	687	28.048	51.291	33.817	1.00	61.00
25	3446	СВ	ASP	687	28.171	52.397	32.776	1.00	59.08
	3447	CG	ASP	687	27.327	52.131	31.555	1.00	63.32
	3448	OD1	ASP	687	27.089	50.940	31.271	1.00	59.10
30	3449	OD2	ASP	687	26.914	53.098	30.875	1.00	63.48
	3450	С	ASP	687	28.853	51.645	35.051	1.00	60.66
	3451	0	ASP	687	29.988	51.203	35.213	1.00	60.12
35	3452	N	GLU	688	28.238	52.424	35.934	1.00	62.70
	3453	CA	GLU	688	28.869	52.872	37.172	1.00	64.06
	3454	СВ	GLU	688	27.967	53.930	37.803	1.00	59.69
	3455	CG	GLU	688	28.530	54.718	38.963	1.00	60.90
40	3456	CD	GLU	688	27.609	55.883	39.319	1.00	59.61
	3457	OE1	GLU	688	27.607	56.905	38.575	1.00	59.94
	3458	OE2	GLU	688	26.871	55.765	40.328	1.00	61.24
45	3459	С	GLU	688	29.137	51.726	38.164	1.00	62.60
	3460	0	GLU	688	30.199	51.659	38.784	1.00	62.63
	3461	N	ILE	689	28.166	50.833	38.314	1.00	61.42
	3462	CA	ILE	689	28.296	49.691	39.207	1.00	64.18
50	3463	СВ	ILE	689	26.919	49.043	39.453	1.00	57.30
	3464	CG2	ILE	689	27.080	47.686	40.125	1.00	62.29
	3465	CG1	ILE	689	26.055	49.980	40.297	1.00	63.30
55	3466	CD1	ILE	689	24.668	49.458	40.545	1.00	63.34
	3467	С	ILE	689	29.235	48.654	38.590	1.00	62.15
	3468	0	ILE	689	30.079	48.071	39.276	1.00	59.58

TABLE 3 (continued)

ATOM		TABLE 3 (continued) ATOMIC COORDINATES FOR THE GR/TIF2/DEX MODEL USED IN MOLECULAR REPLACEMENT									
SALOW Alow Alow					$\overline{}$						
3470	5								1.00	63.61	
3471 CB									1.00	64.65	
3472 CG										61.26	
10 3472 CG										60.27	
3473 CU	10									61.69	
3474 NE		<u> </u>									
3476											
3476	15	ļ	<u> </u>								
3478											
3479 O ARG 690 32.208 47.070 37.268 1.00 63.96		3477									
3480 N MET 691 31.690 49.118 36.521 1.00 58.67 3481 CA MET 691 33.029 49.642 36.689 1.00 62.38 3482 CB MET 691 33.015 51.144 36.408 1.00 63.73 3483 CG MET 691 34.366 51.723 36.003 1.00 63.05 3484 SD MET 691 35.189 50.799 34.661 1.00 60.35 3485 CE MET 691 36.714 50.382 35.462 1.00 57.09 3486 C MET 691 33.533 49.367 38.106 1.00 61.62 3487 O MET 691 34.653 48.907 38.300 1.00 60.31 3488 N THR 692 32.691 49.633 39.995 1.00 61.56 3489 CA THR 692 33.053 49.428 40.490 1.00 59.70 3490 CB THR 692 31.899 49.838 41.404 1.00 61.08 3491 OG1 THR 692 31.493 51.167 41.074 1.00 61.61 3492 CG2 THR 692 33.313 49.794 42.860 1.00 61.81 3493 C THR 692 33.478 47.997 40.837 1.00 61.81 3494 O THR 692 33.4349 47.799 41.695 1.00 59.04 3495 N TYR 693 32.850 47.013 40.190 1.00 59.81 3496 CA TYR 693 33.183 45.605 40.419 1.00 59.81 3497 CB TYR 693 31.961 44.711 40.241 1.00 59.81 3498 CG TYR 693 31.655 44.640 42.728 1.00 59.52 3500 CE1 TYR 693 31.565 44.640 42.728 1.00 59.52 3501 CD2 TYR 693 30.757 44.793 43.844 1.00 63.13 3501 CD2 TYR 693 29.703 45.109 41.297 1.00 59.74 3502 CE2 TYR 693 29.703 45.109 41.297 1.00 59.74 3503 CZ TYR 693 29.703 45.109 41.297 1.00 59.74 3504 OH TYR 693 29.428 45.264 44.760 1.00 60.95 3504 OH TYR 693 29.428 45.264 44.760 1.00 60.95 3504 OH TYR 693 29.625 45.264 44.760 1.00 60.95 3504 OH TYR 693 29.625 45.264 44.760 1.00 60.95 3504 OH TYR 693 29.625 45.264 44.760 1.00 60.95 3504 OH TYR 693 29.625 45.264 44.760 1.00 60.95 3504		3478			 						
3480	20	3479			 			ļ. —			
3481 CA MET 691 33.015 51.144 36.408 1.00 63.73 3482 CB MET 691 34.366 51.723 36.003 1.00 63.05 3484 SD MET 691 35.189 50.799 34.661 1.00 60.35 3485 CE MET 691 36.714 50.382 35.462 1.00 57.09 3486 C MET 691 33.533 49.367 38.106 1.00 61.62 3487 O MET 691 34.653 48.907 38.300 1.00 60.31 3488 N THR 692 32.691 49.633 39.095 1.00 61.56 3490 CB THR 692 31.899 49.838 41.404 1.00 61.08 3491 OG1 THR 692 31.493 51.167 41.074 1.00 61.61 3492 CG2 THR 692 33.374 47.799 41.695 1.00 61.81 3493 C THR 692 34.349 47.799 41.695 1.00 59.04 3494 O THR 692 34.349 47.799 41.695 1.00 59.04 3495 N TYR 693 32.850 47.013 40.190 1.00 59.83 3496 CA TYR 693 31.891 44.711 40.241 1.00 59.81 3497 CB TYR 693 31.961 44.711 40.241 1.00 59.81 3498 CG TYR 693 31.961 44.711 40.241 1.00 59.81 3499 CD1 TYR 693 31.565 44.640 42.728 1.00 59.52 350 CE1 TYR 693 30.757 44.793 43.844 1.00 63.13 3501 CD2 TYR 693 29.703 45.109 41.297 1.00 59.74 3502 CE2 TYR 693 29.703 45.109 41.297 1.00 69.74 3504 OH TYR 693 29.428 45.101 43.671 1.00 63.95		3480						 			
3483		3481			<u> </u>	<u> </u>					
3483	25	3482	СВ	MET	 			 			
3486 CE MET 691 36.714 50.382 35.462 1.00 57.09 3486 C MET 691 33.533 49.367 38.106 1.00 61.62 3487 O MET 691 34.653 48.907 38.300 1.00 60.31 3488 N THR 692 32.691 49.633 39.095 1.00 61.56 3489 CA THR 692 31.899 49.838 41.404 1.00 61.08 3491 OG1 THR 692 31.493 51.167 41.074 1.00 61.61 3492 CG2 THR 692 32.331 49.794 42.860 1.00 61.81 3493 C THR 692 33.478 47.997 40.837 1.00 61.92 3494 O THR 692 34.349 47.799 41.695 1.00 59.04 3495 N TYR 693 32.850 47.013 40.190 1.00 58.91 3496 CA TYR 693 33.183 45.605 40.419 1.00 59.83 3497 CB TYR 693 31.961 44.711 40.241 1.00 59.81 3498 CG TYR 693 31.053 44.801 41.437 1.00 63.50 3499 CD1 TYR 693 31.565 44.640 42.728 1.00 59.52 3500 CE1 TYR 693 29.703 45.109 41.297 1.00 63.13 3501 CD2 TYR 693 29.703 45.109 41.297 1.00 63.95 3503 CZ TYR 693 29.428 45.101 43.671 1.00 62.95 3504 OH TYR 693 29.428 45.101 43.671 1.00 62.95	20	3483	CG	MET	691				 		
3486		3484	SD	MET	691		ļ	 			
3486 C MET 691 34.653 48.907 38.300 1.00 60.31 3488 N THR 692 32.691 49.633 39.095 1.00 61.56 3489 CA THR 692 31.899 49.838 41.404 1.00 59.70 3491 OG1 THR 692 31.493 51.167 41.074 1.00 61.61 3492 CG2 THR 692 32.331 49.794 42.860 1.00 61.81 3493 C THR 692 33.478 47.997 40.837 1.00 61.92 3494 O THR 692 33.478 47.997 40.837 1.00 59.04 3495 N TYR 693 32.850 47.013 40.190 1.00 59.83 3496 CA TYR 693 33.183 45.605 40.419 1.00 59.83 3497 CB TYR 693 31.961 44.711 40.241 1.00 59.81 3498 CG TYR 693 31.053 44.801 41.437 1.00 63.50 3499 CD1 TYR 693 31.565 44.640 42.728 1.00 59.52 3500 CE1 TYR 693 30.757 44.793 43.844 1.00 63.13 3501 CD2 TYR 693 29.703 45.109 41.297 1.00 59.74 3502 CE2 TYR 693 29.428 45.101 43.671 1.00 62.95 3504 OH TYR 693 29.428 45.101 43.671 1.00 62.95		3485	CE	MET	691		ļ. ———	 			
3488 N THR 692 32.691 49.633 39.095 1.00 61.56 3489 CA THR 692 33.053 49.428 40.490 1.00 59.70 3490 CB THR 692 31.899 49.838 41.404 1.00 61.61 3491 OG1 THR 692 31.493 51.167 41.074 1.00 61.61 3492 CG2 THR 692 32.331 49.794 42.860 1.00 61.81 3493 C THR 692 33.478 47.997 40.837 1.00 61.92 3494 O THR 692 34.349 47.799 41.695 1.00 59.04 3495 N TYR 693 32.850 47.013 40.190 1.00 58.91 3496 CA TYR 693 33.183 45.605 40.419 1.00 59.83 3497 CB TYR 693 31.961 44.711 40.241 1.00 59.81 3498 CG TYR 693 31.053 44.801 41.437 1.00 63.50 3499 CD1 TYR 693 31.565 44.640 42.728 1.00 59.52 50 3500 CE1 TYR 693 30.757 44.793 43.844 1.00 63.13 3501 CD2 TYR 693 29.703 45.109 41.297 1.00 59.74 3502 CE2 TYR 693 29.703 45.109 41.297 1.00 62.95 3503 CZ TYR 693 29.428 45.101 43.671 1.00 62.95 3504 OH TYR 693 29.428 45.101 43.671 1.00 62.95	30	3486	С	MET	691	33.533					
3488 N THR 692 33.053 49.428 40.490 1.00 59.70 3490 CB THR 692 31.899 49.838 41.404 1.00 61.08 3491 OG1 THR 692 31.493 51.167 41.074 1.00 61.61 3492 CG2 THR 692 32.331 49.794 42.860 1.00 61.81 3493 C THR 692 33.478 47.997 40.837 1.00 61.92 3494 O THR 692 34.349 47.799 41.695 1.00 59.04 3495 N TYR 693 32.850 47.013 40.190 1.00 58.91 3496 CA TYR 693 33.183 45.605 40.419 1.00 59.83 3497 CB TYR 693 31.961 44.711 40.241 1.00 59.81 3498 CG TYR 693 31.565 44.640 42.728 1.00 63.50 3500 CE1 TYR 693 30.757 44.793 43.844 1.00 63.13 3501 CD2 TYR 693 29.703 45.109 41.297 1.00 59.74 3502 CE2 TYR 693 29.703 45.109 41.297 1.00 62.95 3503 CZ TYR 693 29.428 45.101 43.671 1.00 62.95 3504 OH TYR 693 29.428 45.101 43.671 1.00 62.95		3487	0	MET	691	34.653	48.907				
3490 CB THR 692 31.899 49.838 41.404 1.00 61.08 3491 OG1 THR 692 31.493 51.167 41.074 1.00 61.61 3492 CG2 THR 692 32.331 49.794 42.860 1.00 61.81 3493 C THR 692 33.478 47.997 40.837 1.00 61.92 3494 O THR 692 34.349 47.799 41.695 1.00 59.04 3495 N TYR 693 32.850 47.013 40.190 1.00 58.91 3496 CA TYR 693 33.183 45.605 40.419 1.00 59.83 3497 CB TYR 693 31.961 44.711 40.241 1.00 59.81 3498 CG TYR 693 31.565 44.640 42.728 1.00 59.52 3500 CE1 TYR 693 30.757 44.793 43.844 1.00 63.13 3501 CD2 TYR 693 29.703 45.109 41.297 1.00 59.74 3502 CE2 TYR 693 29.703 45.109 41.297 1.00 62.95 3503 CZ TYR 693 29.428 45.101 43.671 1.00 62.95 3504 OH TYR 693 29.428 45.101 43.671 1.00 62.95		3488	N	THR	692	32.691	49.633	 			
3490 CB THR 692 31.899 49.838 41.404 1.00 61.61 3491 OG1 THR 692 31.493 51.167 41.074 1.00 61.61 3492 CG2 THR 692 32.331 49.794 42.860 1.00 61.81 3493 C THR 692 33.478 47.997 40.837 1.00 61.92 3494 O THR 692 34.349 47.799 41.695 1.00 59.04 3495 N TYR 693 32.850 47.013 40.190 1.00 58.91 3496 CA TYR 693 33.183 45.605 40.419 1.00 59.83 3497 CB TYR 693 31.961 44.711 40.241 1.00 59.81 3498 CG TYR 693 31.053 44.801 41.437 1.00 63.50 3499 CD1 TYR 693 31.565 44.640 42.728 1.00 59.52 3500 CE1 TYR 693 30.757 44.793 43.844 1.00 63.13 3501 CD2 TYR 693 29.703 45.109 41.297 1.00 59.74 3502 CE2 TYR 693 29.428 45.101 43.671 1.00 62.95 3504 OH TYR 693 29.428 45.101 43.671 1.00 62.95	25	3489	CA	THR	692	33.053	49.428	 			
3491 OG1 THR 692 32.331 49.794 42.860 1.00 61.81 3492 CG2 THR 692 32.331 49.794 42.860 1.00 61.81 3493 C THR 692 33.478 47.997 40.837 1.00 61.92 3494 O THR 692 34.349 47.799 41.695 1.00 59.04 3495 N TYR 693 32.850 47.013 40.190 1.00 58.91 3496 CA TYR 693 33.183 45.605 40.419 1.00 59.83 3497 CB TYR 693 31.961 44.711 40.241 1.00 59.81 3498 CG TYR 693 31.053 44.801 41.437 1.00 63.50 3499 CD1 TYR 693 31.565 44.640 42.728 1.00 59.52 3500 CE1 TYR 693 30.757 44.793 43.844 1.00 63.13 3501 CD2 TYR 693 29.703 45.109 41.297 1.00 59.74 3502 CE2 TYR 693 28.892 45.259 42.409 1.00 61.29 3503 CZ TYR 693 29.428 45.101 43.671 1.00 62.95 3504 OH TYR 693 28.625 45.264 44.760 1.00 60.97	35	3490	СВ	THR	692	31.899	49.838	41.404			
3492 CG2 THR 692 33.478 47.997 40.837 1.00 61.92 3494 O THR 692 34.349 47.799 41.695 1.00 59.04 3495 N TYR 693 32.850 47.013 40.190 1.00 58.91 3496 CA TYR 693 33.183 45.605 40.419 1.00 59.83 3497 CB TYR 693 31.961 44.711 40.241 1.00 59.81 3498 CG TYR 693 31.053 44.801 41.437 1.00 63.50 3499 CD1 TYR 693 31.565 44.640 42.728 1.00 59.52 3500 CE1 TYR 693 30.757 44.793 43.844 1.00 63.13 3501 CD2 TYR 693 29.703 45.109 41.297 1.00 59.74 3502 CE2 TYR 693 28.892 45.259 42.409 1.00 61.29 3503 CZ TYR 693 29.428 45.101 43.671 1.00 62.95 3504 OH TYR 693 28.625 45.264 44.760 1.00 60.97		3491	OG1	THR	692	31.493	51.167	41.074	 		
3494 O THR 692 34.349 47.799 41.695 1.00 59.04 3495 N TYR 693 32.850 47.013 40.190 1.00 58.91 3496 CA TYR 693 33.183 45.605 40.419 1.00 59.83 3497 CB TYR 693 31.961 44.711 40.241 1.00 59.81 3498 CG TYR 693 31.053 44.801 41.437 1.00 63.50 3499 CD1 TYR 693 31.565 44.640 42.728 1.00 59.52 3500 CE1 TYR 693 30.757 44.793 43.844 1.00 63.13 3501 CD2 TYR 693 29.703 45.109 41.297 1.00 59.74 3502 CE2 TYR 693 28.892 45.259 42.409 1.00 61.29 3503 CZ TYR 693 29.428 45.101 43.671 1.00 62.95 3504 OH TYR 693 28.625 45.264 44.760 1.00 60.97		3492	CG2	THR	692	32.331	49.794	42.860	1.00	ļ	
3495 N TYR 693 32.850 47.013 40.190 1.00 58.91 3496 CA TYR 693 33.183 45.605 40.419 1.00 59.83 3497 CB TYR 693 31.961 44.711 40.241 1.00 59.81 3498 CG TYR 693 31.053 44.801 41.437 1.00 63.50 3499 CD1 TYR 693 31.565 44.640 42.728 1.00 59.52 3500 CE1 TYR 693 30.757 44.793 43.844 1.00 63.13 3501 CD2 TYR 693 29.703 45.109 41.297 1.00 59.74 3502 CE2 TYR 693 28.892 45.259 42.409 1.00 61.29 3503 CZ TYR 693 29.428 45.101 43.671 1.00 62.95 3504 OH TYR 693 28.625 45.264 44.760 1.00 60.97	40	3493	С	THR	692	33.478	47.997	40.837	1.00	ļ	
3496 CA TYR 693 33.183 45.605 40.419 1.00 59.83 3497 CB TYR 693 31.961 44.711 40.241 1.00 59.81 3498 CG TYR 693 31.053 44.801 41.437 1.00 63.50 3499 CD1 TYR 693 31.565 44.640 42.728 1.00 59.52 3500 CE1 TYR 693 30.757 44.793 43.844 1.00 63.13 3501 CD2 TYR 693 29.703 45.109 41.297 1.00 59.74 3502 CE2 TYR 693 28.892 45.259 42.409 1.00 61.29 3503 CZ TYR 693 29.428 45.101 43.671 1.00 62.95 3504 OH TYR 693 28.625 45.264 44.760 1.00 60.97		3494	0	THR	692	34.349	47.799	41.695	1.00	59.04	
3496 CA TTR 693 31.961 44.711 40.241 1.00 59.81 3497 CB TYR 693 31.961 44.711 40.241 1.00 59.81 3498 CG TYR 693 31.053 44.801 41.437 1.00 63.50 3499 CD1 TYR 693 31.565 44.640 42.728 1.00 59.52 3500 CE1 TYR 693 30.757 44.793 43.844 1.00 63.13 3501 CD2 TYR 693 29.703 45.109 41.297 1.00 59.74 3502 CE2 TYR 693 28.892 45.259 42.409 1.00 61.29 3503 CZ TYR 693 29.428 45.101 43.671 1.00 62.95 3504 OH TYR 693 28.625 45.264 44.760 1.00 60.97		3495	N	TYR	693	32.850	47.013	40.190	1.00		
3497 CB TYR 693 31.961 44.711 40.241 1.00 59.81 3498 CG TYR 693 31.053 44.801 41.437 1.00 63.50 3499 CD1 TYR 693 31.565 44.640 42.728 1.00 59.52 3500 CE1 TYR 693 30.757 44.793 43.844 1.00 63.13 3501 CD2 TYR 693 29.703 45.109 41.297 1.00 59.74 3502 CE2 TYR 693 28.892 45.259 42.409 1.00 61.29 3503 CZ TYR 693 29.428 45.101 43.671 1.00 62.95 3504 OH TYR 693 28.625 45.264 44.760 1.00 60.97	45	3496	CA	TYR	693	33.183	45.605	40.419	1.00		
3498 CG TH 693 31.565 44.640 42.728 1.00 59.52 3499 CD1 TYR 693 31.565 44.640 42.728 1.00 59.52 3500 CE1 TYR 693 29.703 45.109 41.297 1.00 59.74 3501 CD2 TYR 693 28.892 45.259 42.409 1.00 61.29 3503 CZ TYR 693 29.428 45.101 43.671 1.00 62.95 3504 OH TYR 693 28.625 45.264 44.760 1.00 60.97	45	3497	СВ	TYR	693	31.961	44.711	40.241	1.00		
50 3500 CE1 TYR 693 30.757 44.793 43.844 1.00 63.13 3501 CD2 TYR 693 29.703 45.109 41.297 1.00 59.74 3502 CE2 TYR 693 28.892 45.259 42.409 1.00 61.29 3503 CZ TYR 693 29.428 45.101 43.671 1.00 62.95 3504 OH TYR 693 28.625 45.264 44.760 1.00 60.97		3498	CG	TYR	693	31.053	44.801	41.437	1.00	63.50	
3501 CD2 TYR 693 29.703 45.109 41.297 1.00 59.74 3502 CE2 TYR 693 28.892 45.259 42.409 1.00 61.29 3503 CZ TYR 693 29.428 45.101 43.671 1.00 62.95 3504 OH TYR 693 28.625 45.264 44.760 1.00 60.97		3499	CD1	TYR	693	31.565	44.640	42.728	1.00	59.52	
3501 CD2 TTR 030 28.892 45.259 42.409 1.00 61.29 3502 CE2 TYR 693 28.892 45.259 42.409 1.00 61.29 3503 CZ TYR 693 29.428 45.101 43.671 1.00 62.95 3504 OH TYR 693 28.625 45.264 44.760 1.00 60.97	50	3500	CE1	TYR	693	30.757	44.793	43.844	1.00	63.13	
3502 CE2 TTR 033 25.032 15.253		3501	CD2	TYR	693	29.703	45.109	41.297	1.00	59.74	
3503 CZ TTR		3502	CE2	TYR	693	28.892	45.259	42.409	1.00	61.29	
3504 OH TYR 693 28.625 45.264 44.760 1.00 60.97		3503	CZ	TYR	693	29.428	45.101	43.671	1.00	62.95	
3505 C TYR 693 34.310 45.138 39.530 1.00 62.66	55	3504	ОН	TYR	693	28.625	45.264	44.760	1.00	60.97	
l l l <u>l l l l l l l l l l l l l l l l </u>		3505	С	TYR	693	34.310	45.138	39.530	1.00	62.66	

TABLE 3 (continued)

	ATOM	IIC COORDINATE	S FOR THE	GR/TIF2	/DEX MODEL I	JSED IN MOI	LECULAR	REPLAC	EMENT
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
5	3506	0	TYR	693	34.856	44.059	39.732	1.00	60.97
	3507	Z	ILE	694	34.648	45.955	38.536	1.00	62.91
	3508	CA	ILE	694	35.766	45.651	37.661	1.00	60.76
10	3509	СВ	ILE	694	35.726	46.450	36.347	1.00	63.35
	3510	CG2	ILE	694	37.057	46.305	35.611	1.00	58.86
	3511	CG1	ILE	694	34.570	45.956	35.480	1.00	59.03
	3512	CD1	ILE	694	34.524	46.568	34.109	1.00	64.66
15	3513	C	ILE	694	36.947	46.106	38.496	1.00	59.29
	3514	0	ILE	694	37.976	45.450	38.548	1.00	59.81
	3515	N	LYS	695	36.788	47.235	39.171	1.00	60.10
20	3516	CA	LYS	695	37.850	47.718	40.031	1.00	59.42
	3517	СВ	LYS	695	37.530	49.111	40.577	1.00	62.71
	3518	CG	LYS	695	37.525	50.194	39.543	1.00	56.74
25	3519	CD	LYS	695	37.579	51.556	40.199	1.00	62.01
25	3520	CE	LYS	695	37.453	52.666	39.170	1.00	62.05
	3521	NZ	LYS	695	37.650	54.002	39.778	1.00	58.55
	3522	С	LYS	695	37.996	46.741	41.193	1.00	60.49
30	3523	0	LYS	695	39.071	46.578	41.744	1.00	58.83
	3524	N	GLU	696	36.906	46.084	41.559	1.00	58.96
	3525	CA	GLU	696	36.924	45.135	42.663	1.00	63.14
35	3526	СВ	GLU	696	35.489	44.813	43.080	1.00	62.85
55	3527	CG	GLU	696	35.338	44.392	44.513	1.00	61.99
	3528	CD	GLU	696	35.888	45.410	45.497	1.00	62.60
	3529	OE1	GLU	696	35.609	46.616	45.353	1.00	60.89
40	3530	OE2	GLU	696	36.596	44.999	46.438	1.00	59.40
	3531	С	GLU	696	37.668	43.855	42.273	1.00	63.03
	3532	0	GLU	696	38.281	43.198	43.120	1.00	61.00
45	3533	N	LEU	697	37.605	43.507	40.990	1.00	61.52
	3534	CA	LEU	697	38.279	42.324	40.487	1.00	58.74
	3535	СВ	LEU	697	37.830	42.018	39.057	1.00	58.36
	3536	CG	LEU	697	38.438	40.757	38.439	1.00	63.54
50	3537	CD1	LEU	697	37.948	39.560	39.208	1.00	57.14
	3538	CD2	LEU	697	38.058	40.623	36.972	1.00	63.58
	3539	С	LEU	697	39.766	42.633	40.499	1.00	60.87
55	3540	0	LEU	697	40.599	41.748	40.683	1.00	64.34
	3541	N	GLY	698	40.087	43.907	40.303	1.00	63.62
	3542	CA	GLY	698	41.472	44.331	40.285	1.00	60.55

TABLE 3 (continued)

				TABLE :	SLE 3 (continued) F2/DEX MODEL USED IN MOLECULAR REPLACEMENT					
	ATOMI	C COORDINATE	S FOR THE	GR/TIF2/D		SED IN MOLE	Z	B	ATOM	
	ATOM	ATOM TYPE	RESIDUE	#	X	Y		1.00	61.55	
	3543	С	GLY	698	42.053	44.398	41.877	1.00	58.62	
	3544	0	GLY	698	43.259	44.268	42.644	1.00	60.41	
	3545	N	LYS	699	41.180	44.621	44.027	1.00	61.47	
	3546	CA	LYS	699	41.596	44.689	44.903	1.00	62.58	
	3547	СВ	LYS	699	40.437	45.189	44.942	1.00	64.44	
	3548	CG	LYS	699	40.251	46.712	45.889	1.00	59.70	
	3549	CD	LYS	699	39.111	47.088	46.707	1.00	60.92	
	3550	CE	LYS	699	39.375	48.368	46.707	1.00	62.69	
	3551	NZ	LYS	699	38.986	49.663		1.00	64.59	
	3552	С	LYS	699	42.000	43.284	44.447	1.00	59.56	
	3553	0	LYS	699	43.044	43.077	45.063	—— <u> </u>	58.13	
	3554	N	ALA	700	41.161	42.322	44.080	1.00	62.66	
	3555	CA	ALA	700	41.376	40.927	44.415	1.00	59.89	
	3556	СВ	ALA	700	40.219	40.103	43.908	1.00	60.42	
	3557	С	ALA	700	42.678	40.387	43.861	1.00	61.59	
	3558	0	ALA	700	43.430	39.743	44.577	1.00	60.42	
	3559	N	ILE	701	42.937	40.662	42.585	1.00		
)	3560	CA	ILE	701	44.141	40.201	41.898	1.00	63.95	
•	3561	СВ	ILE	701	44.105	40.611	40.416	1.00	61.37	
	3562	CG2	ILE	701	45.396	40.224	39.742	1.00	65.93	
	3563	CG1	ILE	701	42.921	39.939	39.717	1.00	60.90	
5	3564	CD1	ILE	701	42.697	40.405	38.275	1.00	59.90	
	3565	С	ILE	701	45.465	40.675	42.514	1.00	61.05	
	3566	0	ILE	701	46.455	39.931	42.518	1.00	62.71	
10	3567	N	VAL	702	45.495	41.901	43.030	1.00	64.20	
	3568	CA	VAL	702	46.723	42.409	43.637	1.00	61.51	
	3569	СВ	VAL	702	46.690	43.949	43.841	1.00	61.28	
	3570	CG1	VAL	702	46.285	44.645	42.546	1.00	61.75	
4 5	3571	CG2	VAL	702	45.753	44.305	44.983	1.00	63.42	
	3572	С	VAL	702	46.964	41.753	44.995	1.00	62.93	
	3573	0	VAL	702	48.101	41.598	45.432		62.0	
50	3574	N	LYS	703	45.894	41.357	45.665		61.3	
	3575	CA	LYS	703	46.05	7 40.741	46.967		62.8	
	3576	СВ	LYS	703	44.71	4 40.683	47.705		58.2	
	3577		LYS	703	44.85	1 40.816	49.215	1.00		
55	3578		LYS	703	45.46	0 39.557	49.830	1.00		
	3579		LYS	703	46.41	0 39.869	50.986	3 1.00	57.6	

TABLE 3 (continued)

	ATOM	IIC COORDINATE	ES FOR THE (Z/DEX MODEL (ECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
5	3580	NZ	LYS	703	46.656	38.664	51.838	1.00	61.16
	3581	С	LYS	703	46.645	39.355	46.776	1.00	60.39
	3582	0	LYS	703	46.974	38.668	47.731	1.00	61.26
10	3583	N	ARG	704	46.790	38.951	45.523	1.00	62.02
	3584	CA	ARG	704	47.369	37.649	45.214	1.00	61.58
	3585	СВ	ARG	704	46.408	36.817	44.368	1.00	61.15
	3586	CG	ARG	704	45.272	36.177	45.112	1.00	66.70
15	3587	CD	ARG	704	44.871	34.956	44.350	1.00	62.98
	3588	NE	ARG	704	45.731	34.788	43.185	1.00	58.04
	3589	CZ	ARG	704	45.973	33.619	42.601	1.00	65.26
20	3590	NH1	ARG	704	45.422	32.513	43.080	1.00	60.05
	3591	NH2	ARG	704	46.761	33.552	41.538	1.00	60.69
	3592	O	ARG	704	48.686	37.792	44.445	1.00	62.07
25	3593	0	ARG	704	49.779	37.725	45.029	1.00	60.23
25	3594	N	GLU	705	48.555	37.997	43.130	1.00	61.20
	3595	CA	GLU	705	49.686	38.134	42.212	1.00	61.45
	3596	СВ	GLU	705	49.179	38.271	40.776	1.00	59.83
30	3597	CG	GLU	705	49.038	36.941	40.015	1.00	61.58
	3598	CD	GLU	705	48.539	35.764	40.875	1.00	62.88
	3599	OE1	GLU	705	47.511	35.908	41.595	1.00	61.37
35	3600	OE2	GLU	705	49.181	34.685	40.806	1.00	62.83
00	3601	С	GLU	705	50.601	39.296	42.542	1.00	60.29
	3602	0	GLU	705	50.212	40.468	42.446	1.00	61.23
	3603	N	GLY	706	51.832	38.935	42.896	1.00	60.12
40	3604	CA	GLY	706	52.855	39.883	43.288	1.00	62.85
	3605	С	GLY	706	53.083	41.191	42.556	1.00	58.46
	3606	0	GLY	706	52.603	42.244	42.991	1.00	60.65
45	3607	N	ASN	707	53.818	41.141	41.449	1.00	62.51
	3608	ĊA	ASN	707	54.158	42.366	40.729	1.00	63.30
	3609	СВ	ASN	707	55.516	42.196	40.013	1.00	60.74
	3610	CG	ASN	707	55.676	40.835	39.356	1.00	60.19
50	3611	OD1	ASN	707	55.354	39.797	39.950	1.00	59.76
	3612	ND2	ASN	707	56.195	40.833	38.128	1.00	59.34
	3613	С	ASN	707	53.134	42.993	39.792	1.00	59.87
55	3614	0	ASN	707	52.054	42.451	39.569	1.00	63.44
	3615	N	SER	708	53.501	44.161	39.265	1.00	60.90
	3616	CA	SER	708	52.647	44.950	38.382	1.00	58.16

TABLE 3 (continued)

					3 (continued)		ECULAR E	REPLACE	MENT
	MOTA	IC COORDINATE		-		Y	z	В	ATOM
_	ATOM	ATOM TYPE	RESIDUE	#	X X			1.00	62.09
5	3617	СВ	SER	708	53.218	46.366	38.244		61.85
	3618	OG	SER	708	53.403	46.974	39.516	1.00	61.28
	3619	С	SER	708	52.432	44.354	36.998	1.00	
10	3620	0	SER	708	51.400	44.607	36.372	1.00	58.94
	3621	N	SER	709	53.393	43.567	36.516	1.00	61.19
	3622	CA	SER	709	53.266	42.952	35.193	1.00	59.82
	3623	СВ	SER	709	54.650	42.527	34.665	1.00	62.14
15	3624	OG	SER	709	54.658	42.353	33.249	1.00	61.67
	3625	С	SER	709	52.338	41.743	35.318	1.00	59.05
	3626	0	SER	709	51.508	41.479	34.442	1.00	63.30
20	3627	N	GLN	710	52.481	41.022	36.426	1.00	63.44
	3628	CA	GLN	710	51.652	39.851	36.691	1.00	59.41
	3629	СВ	GLN	710	52.289	39.036	37.833	1.00	63.27
	3630	CG	GLN	710	53.572	38.329	37.354	1.00	60.06
25	3631	CD	GLN	710	54.362	37.611	38.453	1.00	57.38
	3632	OE1	GLN	710	53.781	37.012	39.369	1.00	60.97
	3633	NE2	GLN	710	55.701	37.647	38.348	1.00	63.13
30	3634	С	GLN	710	50.209	40.281	37.010	1.00	62.98
	3635	0	GLN	710	49.250	39.584	36.667	1.00	61.41
	3636	N	ASN	711	50.087	41.451	37.641	1.00	59.07
	3637	CA	ASN	711	48.815	42.048	38.017	1.00	59.32
35	3638	СВ	ASN	711	49.053	43.439	38.610	1.00	62.53
	3639	CG	ASN	711	49.400	43.398	40.096	1.00	65.70
	3640	OD1	ASN	711	49.886	44.388	40.663	1.00	59.52
40	3641	ND2	ASN	711	49.140	42.259	40.736	1.00	62.62
	3642	С	ASN	711	47.918	42.167	36.792	1.00	61.19
	3643	0	ASN	711	46.796	41.644	36.778	1.00	59.41
	3644	N	TRP	712	48.418	42.850	35.762	1.00	60.32
45	3645	CA	TRP	712	47.660	43.044	34.534	1.00	65.58
	3646	СВ	TRP	712	48.270	44.168	33.711	1.00	59.75
	3647	CG	TRP	712	48.272	45.426	34.444	1.00	58.80
50	3648	CD2	TRP	712	47.148	46.271	34.668	1.00	64.37
	3649	CE2	TRP	712	47.577	47.322	35.506	1.00	59.23
	3650	CE3	TRP	712	45.812	46.240	34.245	1.00	62.90
	3651	CD1	TRP	712	49.313	45.976	35.124	1.00	62.87
55	3652	NE1	TRP	712	48.905	47.118	35.770	1.00	62.24
	3653	CZ2	TRP	712	46.719	48.335	35.935	1.00	60.25
	3030							<u> </u>	

	ATOM	IIC COORDINATI	S FOR THE	GR/TIF2	DEX MODEL	USED IN MO	LECULAR	REPLAC	EMENT
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	3654	CZ3	TRP	712	44.954	47.247	34.672	1.00	61.54
	3655	CH2	TRP	712	45.413	48.281	35.511	1.00	58.28
	3656	С	TRP	712	47.538	41.811	33.663	1.00	61.45
10	3657	0	TRP	712	46.531	41.623	32.992	1.00	63.89
	3658	N	GLN	713	48.561	40.974	33.646	1.00	62.44
	3659	CA	GLN	713	48.493	39.778	32.823	1.00	60.84
	3660	СВ	GLN	713	49.865	39.088	32.761	1.00	59.49
15	3661	CG	GLN	713	50.495	39.114	31.371	1.00	61.40
	3662	CD	GLN	713	49.624	38.414	30.336	1.00	60.98
	3663	OE1	GLN	713	49.306	38.980	29.285	1.00	60.97
20	3664	NE2	GLN	713	49.232	37.173	30.629	1.00	62.19
	3665	С	GLN	713	47.446	38.847	33.420	1.00	64.17
	3666	0	GLN	713	46.843	38.037	32.722	1.00	62.77
25	3667	N	ARG	714	47.242	38.993	34.724	1.00	60.50
25	3668	CA	ARG	714	46.276	38.203	35.481	1.00	60.81
	3669	СВ	ARG	714	46.560	38.352	36.978	1.00	61.22
	3670	CG	ARG	714	45.609	37.613	37.897	1.00	60.90
30	3671	CD	ARG	714	45.858	36.130	37.894	1.00	60.47
	3672	NE	ARG	714	44.999	35.455	38.858	1.00	60.72
	3673	CZ	ARG	714	44.777	34.145	38.860	1.00	62.42
3 5	3674	NH1	ARG	714	45.358	33.382	37.943	1.00	57.63
	3675	NH2	ARG	714	43.967	33.601	39.762	1.00	61.24
	3676	С	ARG	714	44.877	38.722	35.174	1.00	61.77
	3677	0	ARG	714	43.930	37.949	35.007	1.00	61.51
40	3678	N	PHE	715	44.765	40.044	35.107	1.00	59.93
	3679	CA	PHE	715	43.502	40.691	34.809	1.00	62.80
ļ	3680	СВ	PHE	715	43.630	42.203	34.932	1.00	61.91
45	3681	CG	PHE	715	42.335	42.909	34.749	1.00	63.38
	3682	CD1	PHE	715	41.340	42.779	35.706	1.00	62.36
ļ	3683	CD2	PHE	715	42.062	43.610	33.581	1.00	62.07
	3684	CE1	PHE	715	40.091	43.323	35.504	1.00	60.49
50	3685	CE2	PHE	715	40.815	44.162	33.365	1.00	62.56
	3686	CZ	PHE	715	39.823	44.017	34.328	1.00	61.44
	3687	С	PHE	715	43.046	40.353	33.395	1.00	60.17
55	3688	0	PHE	715	41.849	40.288	33.115	1.00	59.69
<u></u>	3689	N	TYR	716	44.017	40.157	32.507	1.00	61.56
	3690	CA	TYR	716	43.749	39.820	31.116	1.00	60.99

TABLE 3 (continued)

	ATOMIC COORDINATES FOR THE GR/TIF2/DEX MODEL USED IN MOLECULAR REPLACEMENT V Z B ATOM									
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM	
5	3691	СВ	TYR	716	45.043	39.870	30.297	1.00	62.72	
	3692	CG	TYR	716	44.810	39.609	28.828	1.00	61.29	
	3693	CD1	TYR	716	44.115	40.530	28.047	1.00	57.90	
	3694	CE1	TYR	716	43.790	40.253	26.728	1.00	62.63	
0	3695	CD2	TYR	716	45.188	38.399	28.242	1.00	65.06	
	3696	CE2	TYR	716	44.866	38.111	26.923	1.00	60.30	
	3697	CZ	TYR	716	44.161	39.044	26.172	1.00	62.23	
5	3698	ОН	TYR	716	43.798	38.768	24.870	1.00	58.39	
		C	TYR	716	43.157	38.419	31.036	1.00	62.09	
	3699	0	TYR	716	42.085	38.213	30.469	1.00	60.05	
	3700	N	GLN	717	43.875	37.460	31.611	1.00	62.41	
0	3701	CA	GLN	717	43.449	36.071	31.623	1.00	60.55	
	3702	CB	GLN	717	44.409	35.222	32.465	1.00	59.06	
	3703	CG	GLN	717	45.855	35.166	31.978	1.00	60.27	
25	3704		GLN	717	46.758	34.357	32.919	1.00	60.87	
	3705	CD OF1	GLN	717	46.844	34.639	34.124	1.00	61.07	
	3706	OE1	GLN	717	47.437	33.352	32.369	1.00	62.22	
	3707	NE2	GLN	717	42.048	35.931	32.194	1.00	59.73	
30	3708	C		717	41.156	35.383	31.545	1.00	64.26	
	3709	0	GLN	718	41.867	36.428	33.415	1.00	58.62	
	3710	N		718	40.582	36.348	34.101	1.00	60.65	
35	3711	CA	LEU	718	40.708	36.899	35.530	1.00	61.42	
	3712	СВ	LEU	718	41.661	36.158	36.487	1.00	61.76	
	3713	CG	LEU		41.717	36.889	37.809	1.00	60.77	
	3714	CD1	LEU	718	41.210	34.721	36.701	1.00	59.74	
40	3715	CD2	LEU	718	39.427	37.034	33.375	1.00	59.70	
	3716	С	LEU	718	38.330	36.495	33.327	1.00	60.84	
	3717	0	LEU	718		38.211	32.812	1.00	62.09	
45	3718	N	THR	719	39.661	38.925	32.095	1.00	59.89	
	3719	CA	THR	719	38.608	 	31.900	1.00	63.01	
	3720	СВ	THR	719	38.985		31.237	1.00	63.25	
	3721	OG1	THR	719			33.240	1.00	61.82	
50	3722	CG2	THR	719		 	30.733	+	61.35	
	3723	С	THR	719			30.755	+	61.10	
	3724	0	THR	719			30.062	+	62.98	
55	3725	N	LYS	720					61.71	
55	3726	CA	LYS	720			29.079		62.48	
	3727	СВ	LYS	720	40.460	36.209	28.588	1.00	1	

	ATOM	IC COORDINATI	S FOR THE	GR/TIF2	DEX MODEL	USED IN MO	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	В	ATOM
5	3728	CG	LYS	720	40.500	35.805	27.128	1.00	58.53
	3729	CD	LYS	720	40.038	36.972	26.251	1.00	59.89
	3730	CE	LYS	720	39.616	36.524	24.842	1.00	58.48
10	3731	NZ	LYS	720	38.772	37.570	24.209	1.00	60.64
	3732	С	LYS	720	38.184	35.430	29.331	1.00	61.74
	3733	0	LYS	720	37.479	34.962	28.438	1.00	61.10
45	3734	N	LEU	721	38.228	34.923	30.560	1.00	61.01
15	3735	CA	LEU	721	37.417	33.776	30.938	1.00	64.67
	3736	СВ	LEU	721	37.897	33.187	32.268	1.00	59.87
	3737	CG	LEU	721	37.656	31.707	32.594	1.00	61.04
20	3738	CD1	LEU	721	37.766	31.549	34.095	1.00	57.32
	3739	CD2	LEU	721	36.292	31.224	32.130	1.00	59.37
	3740	С	LEU	721	35.983	34.277	31.078	1.00	62.25
25	3741	0	LEU	721	35.031	33.533	30.860	1.00	57.52
25	3742	N	LEU	722	35.830	35.540	31.455	1.00	62.01
	3743	CA	LEU	722	34.503	36.113	31.591	1.00	62.92
	3744	СВ	LEU	722	34.578	37.497	32.246	1.00	61.91
<i>30</i> ·	3745	CG	LEU	722	34.841	37.559	33.754	1.00	58.92
	3746	CD1	LEU	722	34.946	38.986	34.193	1.00	62.12
	3747	CD2	LEU	722	33.728	36.876	34.507	1.00	62.52
35	3748	С	LEU	722	33.949	36.226	30.180	1.00	59.20
33	3749	0	LEU	722	32.883	35.697	29.854	1.00	60.43
	3750	N	ASP	723	34.714	36.911	29.344	1.00	60.22
	3751	CA	ASP	723	34.379	37.143	27.952	1.00	60.07
40	3752	СВ	ASP	723	35.607	37.697	27.248	1.00	59.74
	3753	CG	ASP	723	35.437	39.115	26.832	1.00	60.94
	3754	OD1	ASP	723	34.869	39.890	27.626	1.00	63.82
45	3755	OD2	ASP	723	35.883	39.445	25.713	1.00	63.76
i	3756	С	ASP	723	33.909	35.899	27.214	1.00	61.21
	3757	0.	ASP	723	33.108	35.981	26.292	1.00	61.67
	3758	N	SER	724	34.414	34.743	27.613	1.00	62.19
50	3759	CA	SER	724	34.054	33.521	26.923	1.00	62.38
	3760	СВ	SER	724	35.256	32.578	26.876	1.00	61.26
	3761	OG	SER	724	35.743	32.308	28.175	1.00	62.27
55	3762	С	SER	724	32.869	32.823	27.539	1.00	63.42
	3763	0	SER	724	32.419	31.785	27.054	1.00	60.80
	3764	N	MET	725	32.352	33.395	28.613	1.00	61.24

TABLE 3 (continued)

	ATOM	IIC COORDINATE	S FOR THE (/DEX MODEL U		ECULAR F	REPLACI	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	X	Υ	Z	В	ATOM
5	3765	CA	MET	725	31.209	32.794	29.265	1.00	60.73
	3766	CB	MET	725	30.955	33.461	30.608	1.00	62.85
	3767	CG	MET	725	30.460	32.506	31.654	1.00	63.01
	3768	SD	MET	725	31.773	31.403	32.092	1.00	57.07
10	3769	CE	MET	725	30.949	30.380	33.178	1.00	59.44
		C	MET	725	30.008	32.987	28.352	1.00	59.13
	3770	0	MET	725	29.022	32.254	28.437	1.00	62.11
15		N	HIS	726	30.105	33.973	27.465	1.00	58.55
	3772	CA	HIS	726	29.021	34.267	26.547	1.00	60.99
	3773	СВ	HIS	726	29.302	35.554	25.769	1.00	62.45
	3774	CG	HIS	726	29.036	36.801	26.557	1.00	59.03
20	3775	CD2	HIS	726	27.909	37.248	27.161	1.00	60.25
		ND1	HIS	726	30.003	37.753	26.800	1.00	61.07
	3777	CE1	HIS	726	29.484	38.731	27.520	1.00	61.93
25		NE2	HIS	726	28.215	38.451	27.752	1.00	59.78
	3779	C	HIS	726	28.773	33.116	25.601	1.00	58.35
	3781	0	HIS	726	27.638	32.696	25.438	1.00	61.58
20	3782	N	GLU	727	29.816	32.571	24.993	1.00	62.79
30	3783	CA	GLU	727	29.574	31.461	24.086	1.00	60.53
	3784	СВ	GLU	727	30.693	31.307	23.055	1.00	59.90
	3785	CG	GLU	727	32.005	30.809	23.578	1.00	57.32
35	3786	CD	GLU	727	32.838	30.187	22.473	1.00	59.99
	3787	OE1	GLU	727	34.057	30.013	22.680	1.00	62.44
	3788	OE2	GLU	727	32.275	29.862	21.400	1.00	63.27
40	3789	C	GLU	727	29.351	30.138	24.791	1.00	59.24
	3790	0	GLU	727	28.779	29.233	24.203	1.00	62.98
	3791	N	VAL	728	29.812	29.992	26.029	1.00	60.19
	3792	CA	VAL	728	29.546	28.732	26.721	1.00	58.29
45	3793	СВ	VAL	728	30.493	28.481	27.956	1.00	58.87
	3794	CG1	VAL	728	31.261	29.728	28.304	1.00	60.81
	3795	CG2	VAL	728	29.694	28.002	29.152	1.00	61.95
50	3796	С	VAL	728	28.082	28.825	27.145	1.00	59.41
	3797	0	VAL	728	27.335	27.848	27.046	1.00	61.38
	3798	N	VAL	729	27.670	30.014	27.585	1.00	59.91
	3799	CA	VAL	729	26.283	30.238	27.971	1.00	60.73
55	3800	СВ	VAL	729	26.072	31.664	28.504	1.00	63.53
	3801	CG1	VAL	729	24.602	32.062	28.406	1.00	62.52
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	ATOM	IIC COORDINATI	ES FOR THE	GR/TIF2	2/DEX MODEL I	USED IN MO	LECULAR	REPLAC	EMENT
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
5	3802	CG2	VAL	729	26.513	31.725	29.946	1.00	62.40
	3803	С	VAL	729	25.397	30.004	26.749	1.00	62.11
	3804	0	VAL	729	24.279	29.493	26.868	1.00	58.35
10	3805	N	GLU	730	25.894	30.372	25.571	1.00	59.30
	3806	CA	GLU	730	25.133	30.146	24.347	1.00	61.37
	3807	СВ	GLU	730	25.940	30.546	23.125	1.00	57.56
	3808	CG	GLU	730	25.202	31.467	22.199	1.00	61.79
15	3809	CD	GLU	730	25.875	31.569	20.859	1.00	62.47
	3810	OE1	GLU	730	27.039	32.032	20.811	1.00	62.43
	3811	OE2	GLU	730	25.235	31.178	19.858	1.00	61.70
20	3812	С	GLU	730	24.832	28.660	24.267	1.00	60.90
	3813	0	GLU	730	23.701	28.244	24.449	1.00	63.19
	3814	N	ASN	731	25.864	27.866	24.013	1.00	61.88
05	3815	CA	ASN	731	25.729	26.416	23.919	1.00	63.18
25	3816	СВ	ASN	731	27.109	25.761	23.859	1.00	56.96
ĺ	3817	CG	ASN	731	27.516	25.393	22.449	1.00	61.50
	3818	OD1	ASN	731	26.909	24.515	21.808	1.00	59.01
30	3819	ND2	ASN	731	28.552	26.059	21.953	1.00	62.29
	3820	С	ASN	731	24.927	25.773	25.045	1.00	62.97
	3821	0	ASN	731	24.251	24.772	24.834	1.00	60.93
35	3822	N	LEU	732	25.002	26.330	26.246	1.00	59.50
	3823	CA	LEU	732	24.241	25.737	27.326	1.00	57.74
	3824	СВ	LEU	732	24.826	26.120	28.668	1.00	61.00
	3825	CG	LEU	732	25.964	25.172	29.078	1.00	60.69
40	3826	CD1	LEU	732	26.278	25.584	30.458	1.00	63.28
	3827	CD2	LEU	732	25.589	23.663	29.058	1.00	63.30
	3828	С	LEU	732	22.761	26.089	27.240	1.00	61.98
45	3829	0	LEU	732	21.912	25.269	27.574	1.00	63.87
	3830	N	LEU	733	22.456	27.294	26.762	1.00	63.36
	3831	CA	LEU	733	21.073	27.744	26.596	1.00	57.15
	3832	СВ	LEU	733	21.040	29.241	26.290	1.00	60.30
50	3833	CG	LEU	733	21.134	30.193	27.481	1.00	57.97
. [3834	CD1	LEU	733	21.471	31.571	26.956	1.00	62.48
[3835	CD2	LEU	733	19.824	30.212	28.272	1.00	62.63
55	3836	С	LEU	733	20.354	26.997	25.470	1.00	63.32
	3837	0	LEU	733	19.256	26.475	25.655	1.00	61.30
	3838	N	ASN	734	20.965	26.972	24.292	1.00	57.57

TABLE 3 (continued)

				TABLE 3 (continued) GR/TIF2/DEX MODEL USED IN MOLECULAR REPLACEMENT Y Y Z B ATOM						NT		
Г	ATOM	C COORDINATE	S FOR THE G	R/TIF	2/DEX	MODEL U	SED	N MOLE	7	В	1	том
+	ATOM	ATOM TYPE	RESIDUE	#		<u>×</u>			23.159	1.0		59.44
5	3839	CA	ASN	734		20.376	26.2		21.994	1.0		57.94
+	3840	СВ	ASN	734		21.363	26.2	+	21.495	1.0		59.18
-	3841	CG	ASN	734		21.671		682	22.268	1.0		63.60
}		OD1	ASN	734		22.072		556		1.1		63.41
10	3842	ND2	ASN	734		21.476		908	20.202	├ ──	00	60.75
1	3843	C	ASN	734		20.038	24	.872	23.594	┼	00	62.53
	3844	0	ASN	734		18.904	24	.423	23.453	┼	.00	61.37
15	3845	N	TYR	735	,	21.017	24	.177	24.151	┼		58.79
,,,	3846	CA	TYR	735	;	20.762	22	.823	24.597	+-	.00	58.40
	3847	CB	TYR	735	5	22.058	22	2.201	25.158	-	.00	60.44
	3848		TYR	73	5	22.087	20).717	24.978	-	.00	60.76
20	3849	CG	TYR	73	5	21.309	19	9.890	25.780		.00	60.42
	3850	CD1	TYR	73	5	21.240	1	8.509	25.562		1.00	
	3851	CE1	TYR	73	5	22.815	2	0.134	23.938		1.00	61.19
	3852	CD2	TYR	73		22.750) 1	8.758	23.696	<u> </u>	1.00	62.36
<i>2</i> 5	3853	CE2		73		21.961	1 1	7.950	24.519	1	1.00	59.04
	3854	CZ	TYR	-+-	35	21.899	9 .	16.583	24.313	3	1.00	58.73
	3855	ОН	TYR		35	19.64		22.877	25.65	7	1.00	61.17
30	3856	С	TYR		35	18.85	$-\!\!\!+\!\!\!\!-$	21.945	25.79	0	1.00	63.18
	3857	0	TYR			19.57		23.995	26.37	3	1.00	63.5
	3858	N	CYS	}	36	18.56		24.202	27.40)3	1.00	65.2
	3859	CA	CYS		36	18.92	-+	25.433	28.22	28	1.00	64.1
35	3860	СВ	CYS		736	17.64	-+	25.957	29.33	39	1.00	60.7
	3861	SG	CYS		736	17.1		24.389	26.7	79	1.00	63.4
	3862	C	CYS		736			23.645	27.0	90	1.00	61.3
40	3863	3 0	CYS		736	16.2		25.391	25.9	06	1.00	59.7
	3864	1 N	PHE		737	17.0		25.688	25.2	209	1.00	61.
	386		PHE		737	15.8					1.00	59.
	386	CD	PHE		737	16.0	+	26.792			1.00	58.
45	386		PHE		737	16.3		28.129		096	1.00	59.
	386		PHE		737	16.		28.414		979	1.00	61
	386		PHE		737	l	924	29.119		638	1.00	
50	387	051	PHE	1	737		340	29.669		.510	1.00	+
50	ļ	050	PHE	=	737	17.	.207	30.37				<u> </u>
	38		PHE		737	16	.914	30.64		.843	+	
	38	<u></u>	PHI	E	737	15	.280	24.46		.484	+	
55	 	·	PH		737	14	.153	24.02		.714	+-	<u> </u>
	38	74 O N	GL		738	16	5.108	23.93	32 23	3.590	1.0	

	ATOM	IIC COORDINATE	S FOR THE	GR/TIF2	Z/DEX MODEL	JSED IN MO	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	3876	CA	GLN	738	15.786	22.752	22.798	1.00	61.63
	3877	СВ	GLN	738	17.078	22.181	22.220	1.00	62.59
	3878	CG	GLN	738	16.989	20.805	21.575	1.00	61.50
10	3879	CD	GLN	738	18.368	20.144	21.521	1.00	62.73
	3880	OE1	GLN	738	18.581	19.062	22.093	1.00	60.75
	3881	NE2	GLN	738	19.321	20.808	20.853	1.00	61.08
	3882	C	GLN	738	15.043	21.677	23.591	1.00	62.87
15	3883	0	GLN	738	13.970	21.235	23.180	1.00	62.00
	3884	N	THR	739	15.595	21.262	24.725	1.00	62.54
	3885	CA	THR	739	14.937	20.228	25.513	1.00	62.00
20	3886	СВ	THR	739	15.883	19.572	26.529	1.00	61.40
	3887	OG1	THR	739	16.041	20.437	27.659	1.00	59.46
	3888	CG2	THR	739	17.234	19.302	25.902	1.00	67.45
25	3889	С	THR	739	13.721	20.740	26.282	1.00	60.54
25	3890	0	THR	739	12.911	19.949	26.758	1.00	60.32
	3891	N	PHE	740	13.589	22.049	26.433	1.00	60.26
	3892	CA	PHE	740	12.426	22.572	27.136	1.00	60.59
30	3893	СВ	PHE	740	12.645	24.013	27.586	1.00	60.53
	3894	CG	PHE	740	11.387	24.682	28.073	1.00	60.33
	3895	CD1	PHE	740	10.976	24.543	29.399	1.00	60.24
35	3896	CD2	PHE	740	10.591	25.417	27.196	1.00	60.88
33	3897	CE1	PHE	740	9.794	25.124	29.842	1.00	62.19
	3898	CE2	PHE	740	9.407	26.001	27.629	1.00	63.06
	3899	CZ	PHE	740	9.005	25.857	28.954	1.00	59.45
40	3900	С	PHE	740	11.269	22.562	26.161	1.00	62.20
	3901	0	PHE	740	10.102	22.514	26.560	1.00	60.22
	3902	N	LEU	741	11.619	22.631	24.877	1.00	61.98
45	3903	CA	LEU	741	10.650	22.665	23.783	1.00	61.09
	3904	СВ	LEU	741	11.158	23.561	22.656	1.00	63.24
	3905	CG	LEU	741	11.286	25.053	22.919	1.00	57.80
	3906	CD1	LEU	741	11.680	25.732	21.617	1.00	59.82
50	3907	CD2	LEU	741	9.966	25.608	23.455	1.00	59.42
	3908	С	LEU	741	10.313	21.316	23.170	1.00	60.22
	3909	0	LEU	741	9.748	21.267	22.079	1.00	59.13
55	3910	N	ASP	742	10.662	20.230	23.845	1.00	61.37
	3911	CA	ASP	742	10.388	18.914	23.309	1.00	61.75
	3912	СВ	ASP	742	11.679	18.315	22.733	1.00	62.29

TABLE 3 (continued)

	ATOM	IC COORDINATE	S FOR THE C	R/TIF2/	DEX MODEL U	SED IN MOL	ECULAR RI	PLACE	MENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	3913	CG	ASP	742	11.476	16.916	22.145	1.00	59.85
	ļ	OD1	ASP	742	12.450	16.354	21.576	1.00	62.02
	3914	OD2	ASP	742	10.348	16.378	22.253	1.00	63.60
	3915	C	ASP	742	9.843	18.041	24.420	1.00	61.37
10	3916	0	ASP	742	10.614	17.412	25.153	1.00	62.69
	3917	N	LYS	743	8.517	18.018	24.564	1.00	61.79
	3918	CA	LYS	743	7.882	17.183	25.595	1.00	58.96
15	3919	CB	LYS	743	6.381	17.501	25.727	1.00	62.19
	3920		LYS	743	6.056	18.836	26.404	1.00	57.47
	3921	CG	LYS	743	4.545	19.047	26.473	1.00	59.18
	3922		LYS	743	4.180	20.313	27.232	1.00	61.36
20	3923	CE	LYS	743	2.699	20.507	27.295	1.00	57.73
	3924	NZ	LYS	743	8.055	15.688	25.281	1.00	61.20
	3925	C	LYS	743	7.912	14.843	26.165	1.00	60.18
25	3926	0	 	744	8.366	15.380	24.020	1.00	59.67
	3927	N	THR	744	8.580	14.007	23.554	1.00	61.15
	3928	CA	THR	744	8.792	13.974	22.047	1.00	59.67
	3929	СВ	THR	744	7.881	14.890	21.426	1.00	62.19
30	3930	OG1	THR		8.550	12.574	21.513	1.00	63.96
	3931	CG2	THR	744	9.818	13.406	24.202	1.00	61.58
	3932	С	THR	744	9.976	12.195	24.261	1.00	62.58
35	3933	0	THR	744	10.711	14.279	24.646	1.00	57.60
	3934	N	MET	745	11.933	13.887	25.334	1.00	62.60
	3935	CA	MET	745	12.982	14.976	25.147	1.00	59.01
	3936	СВ	MET	745	14.366	14.645	25.612	1.00	60.84
40	3937	CG	MET	745		15.948	24.965	1.00	58.90
	3938	SD	MET	745	15.440	15.039	23.610	1.00	62.07
	3939	CE	MET	745	16.317	- 	26.774	1.00	63.96
45	3940	С	MET	745	11.435		27.629	1.00	64.77
.0	3941	0	MET	745		 	27.025	1.00	59.79
	3942	N	SER	746			28.326	1.00	60.83
	3943	CA	SER	746	0.110			1.00	61.05
50	3944	СВ	SER	746			28.576	1.00	61.70
	3945	OG	SER	746		 	29.842	+	61.9
	3946	С	SER	746			29.533		61.8
55	3947	0	SER	746			30.545		
55	3948	N	ILE	747			29.443		
	3949	CA	ILE	747	12.140	16.678	30.571	1.00	61.4

	ATOM	IIC COORDINATI	ES FOR THE (2/DEX MODEL		LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM
5	3950	СВ	ILE	747	13.557	17.115	30.098	1.00	57.79
	3951	CG2	ILE	747	14.374	17.635	31.275	1.00	62.83
	3952	CG1	ILE	747	14.282	15.911	29.484	1.00	61.46
10	3953	CD1	ILE	747	15.664	16.211	28.976	1.00	65.11
	3954	С	ILE	747	11.441	17.829	31.318	1.00	63.68
	3955	0	ILE	747	11.166	18.891	30.747	1.00	62.48
	3956	N	GLU	748	11.167	17.597	32.601	1.00	59.16
15	3957	CA	GLU	748	10.457	18.546	33.466	1.00	62.34
	3958	СВ	GLU	748	9.803	17.736	34.620	1.00	60.97
	3959	CG	GĽU	748	8.628	18.410	35.400	1.00	63.60
20	3960	CD	GLU	748	7.998	17.505	36.516	1.00	59.56
	3961	OE1	GLU	748	8.753	16.918	37.340	1.00	61.60
	3962	OE2	GLU	748	6.744	17.396	36.574	1.00	62.18
25	3963	С	GLU	748	11.333	19.701	34.022	1.00	59.89
25	3964	0	GLU	748	12.503	19.498	34.367	1.00	59.20
	3965	N	PHE	749	10.781	20.913	34.046	1.00	62.20
	3966	CA	PHE	749	11.484	22.079	34.601	1.00	60.36
30	3967	СВ	PHE	749	11.773	23.202	33.571	1.00	63.43
	3968	CG	PHE	749	12.801	22.827	32.506	1.00	62.31
	3969	CD1	PHE	749	12.604	21.790	31.624	1.00	63.18
35	3970	CD2	PHE	749	13.948	23.639	32.305	1.00	58.27
55	3971	CE1	PHE	749	13.461	21.555	30.545	1.00	59.47
	3972	CE2	PHE	749	14.821	23.409	31.221	1.00	59.31
	3973	CZ	PHE	749	14.566	22.379	30.341	1.00	60.26
40	3974	С	PHE	749	10.491	22.634	35.646	1.00	57.34
	3975	0	PHE	749	9.296	22.348	35.598	1.00	62.05
	3976	N	PRO	750	10.971	23.425	36.612	1.00	61.11
45	3977	CD	PRO	750	12.322	23.572	37.178	1.00	62.36
	3978	CA	PRO	750	9.955	23.918	37.535	1.00	63.79
	3979	СВ	PRO	750	10.745	24.124	38.834	1.00	59.84
	3980	CG	PRO	750	12.072	24.510	38.341	1.00	61.92
50	3981	С	PRO	750	9.283	25.174	37.042	1.00	61.44
	3982	0	PRO	750	9.000	25.325	35.852	1.00	61.38
	3983	N	GLU	751	9.016	26.087	37.962	1.00	61.10
<i>55</i>	3984	CA	GLU	751	8.375	27.335	37.604	1.00	59.57
	3985	СВ	GLU	751	7.535	27.828	38.778	1.00	60.79
	3986	CG	GLU	751	6.534	26.804	39.190	1.00	60.87

TABLE 3 (continued)

				TAB	LE 3	(continued)	SED	IN MOLE	CULAR RE	PLA	CEME	NT
Γ	ATOMIC	C COORDINATE	S FOR THE	GR/TIF	2/DE>	(MODEL 0		Y	Z	В	A	TOM
-	ATOM	ATOM TYPE	RESIDUE	#			26.3		38.013	1.00		58.45
5	3987	CD	GLU	751		5.716	26.		36.889	1.00	,	58.76
-	3988	OE1	GLU	751		6.004		564	38.205	1.00	5	62.99
f	3989	OE2	GLU	751		4.768		328	37.275	1.00	0	59.04
t	3990	С	GLU	751		9.449		698	36.115	1.0	0	63.48
10	3991	0	GLU	751		9.644		.736	38.319	1.0	0	62.70
	3992	N	MET	752	2	10.154			38.184	1.0	0	60.75
	3993	CA	MET	752	2	11.223		.693 .499	39.306	1.0	00	60.00
15	3994	СВ	MET	752	2	12.241			39.392	1.0	00	60.74
	3995	CG	MET	75	2	13.222	—	0.641	39.387	1.0		61.02
	3996	SD	MET	75	2	12.305	 	2.203	41.073	├	00	58.25
	3997	CE	MET	75	2	12.040	4	2.394	36.847	-	00	61.43
20	3998	С	MET	75	2	11.919	4	9.549	36.103	┼	00	63.92
	3999	0	MET	75	52	12.062	4	0.515	36.537		.00	61.53
	4000	N	LEU	7	53	12.329		8.326			.00	63.94
25	4000	CA	LEU	7	53	13.044		28.081	35.307	+-	.00	61.07
	4001	СВ	LEU	7	53	13.749		26.729 	35.370	+-	.00	59.22
	4002	CG	LEU	7	53	15.278	4	26.834 	35.432	+	.00	60.65
	4003	CD1	LEU	7	53	15.720		27.666 	36.636		1.00	56.88
30		CD2	LEU	7	753	15.870		25.436 	35.488	+	1.00	62.24
	4005	C	LEU	-	753	12.18	2	28.179	34.073	-	1.00	61.75
	4006		LEU		753	12.53	9	28.882	33.138		1.00	58.3
35	4007	N	ALA		754	11.04	9	27.488	34.06	-+-		60.8
	4008	CA	ALA		754	10.15	6	27.536	32.90	-+-	1.00	62.8
	4009	CB	ALA		754	8.85	66	26.790	33.20	-+	1.00	60.3
	4010	C	ALA		754	9.85	51	28.995	32.58		1.00	61.4
40	4011		ALA		754	10.03	31	29.471	31.45	+	1.00	62.1
	4012		GLU		755	9.4	06	29.698	33.6		1.00	60.8
	4013		GLU		755	9.0	40	31.101	33.5	35	1.00	60.
45	4014		GLU	+	755	8.4	81	31.550			1.00	62.
	4015		GLU		755	7.8	321	32.911	34.8		1.00	
	4016		GLU	+	755	6.3	333	32.829	35.0	97	1.00	
	4017		GLU		755	5.7	741	31.746	34.8	41	1.00	1 05
50	4018		GLU		755		761	33.857	35.5	531	1.00	-
	401		GLU		755		163	32.053	33.	106	1.00	
	402		GLU		755		006	33.26	33.	209	1.00	-
55	402		ILE		756		296	31.52	8 32.	653	1.00	
	402				756		.382	32.39	6 32.	187	1.00	58
	402	23 CA	ILE		1,00							

	ATOM	IIC COORDINATI	ES FOR THE (Z/DEX MODEL	<u> </u>	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	z	В	ATOM
5	4024	СВ	ILE	756	13.664	32.292	33.024	1.00	62.34
	4025	CG2	ILE	756	14.819	32.942	32.280	1.00	62.52
	4026	CG1	ILE	756	13.487	33.000	34.355	1.00	61.56
10	4027	CD1	ILE	756	14.750	33.012	35.170	1.00	59.91
	4028	С	ILE	756	12.725	31.933	30.799	1.00	61.14
	4029	0	ILE	756	12.985	32.732	29.904	1.00	61.35
	4030	N	ILE	757	12.728	30.618	30.639	1.00	58.95
15	4031	CA	ILE	757	13.026	30.016	29.362	1.00	60.81
	4032	СВ	ILE	757	12.990	28.467	29.480	1.00	60.69
	4033	CG2	ILE	757	12.522	27.838	28.197	1.00	64.94
20	4034	CG1	ILE	757	14.378	27.948	29.883	1.00	60.19
	4035	CD1	ILE	757	14.463	27.436	31.313	1.00	62.89
	4036	C	ILE	757	12.012	30.542	28.348	1.00	59.56
25	4037	0	ILE	757	12.397	30.991	27.276	1.00	61.79
25	4038	2	THR	758	10.726	30.521	28.702	1.00	61.66
	4039	CA	THR	758	9.677	31.014	27.795	1.00	61.59
	4040	СВ	THR	758	8.224	30.722	28.323	1.00	63.29
30	4041	OG1	THR	758	8.188	30.811	29.755	1.00	62.91
	4042	CG2	THR	758	7.754	29.343	27.874	1.00	61.73
	4043	С	THR	758	9.809	32.516	27.566	1.00	60.10
35	4044	0	THR	758	9.735	33.002	26.423	1.00	59.44
-	4045	N	ASN	759	10.023	33.242	28.656	1.00	59.76
	4046	CA	ASN	759	10.154	34.691	28.608	1.00	61.77
	4047	СВ	ASN	759	10.160	35.242	30.034	1.00	62.16
40	4048	CG	ASN	759	9.352	34.371	30.981	1.00	60.61
	4049	OD1	ASN	759	9.601	33.164	31.072	1.00	60.73
	4050	ND2	ASN	759	8.379	34.965	31.683	1.00	58.61
45	4051	С	ASN	759	11.430	35.091	27.886	1.00	63.83
	4052	0	ASN	759	11.725	36.278	27.737	1.00	59.18
	4053	N	GLN	760	12.191	34.099	27.439	1.00	60.77
	4054	CA	GLN	760	13.431	34.395	26.742	1.00	60.74
50	4055	СВ	GLN	760	14.637	34.295	27.690	1.00	63.92
	4056	CG	GLN	760	14.546	35.101	28.992	1.00	63.35
	4057	CD	GLN	760	15.114	36.508	28.896	1.00	61.91
55	4058	OE1	GLN	760	16.231	36.714	28.423	1.00	61.24
	4059	NE2	GLN	760	14.351	37.482	29.367	1.00	62.64
	4060	С	GLN	760	13.687	33.482	25.554	1.00	61.67

TABLE 3 (continued)

	ATOM	IC COORDINATE	S FOR THE C		3 (continued) DEX MODEL U	SED IN MOL	ECULAR R	EPLACE	MENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	MOTA
5	4061	0	GLN	760	14.390	33.898	24.631	1.00	58.73
	4062	N	ILE	761	13.124	32.264	25.563	1.00	63.30
	4062	CA	ILE	761	13.368	31.305	24.476	1.00	62.33
	4064	СВ	ILE	761	12.102	30.454	24.088	1.00	62.35
10	4065	CG2	ILE	761	12.345	29.721	22.777	1.00	64.29
	4066	CG1	ILE	761	11.834	29.367	25.140	1.00	60.68
	4067	CD1	ILE	761	12.794	28.186	25.074	1.00	65.98
15	4068	C	ILE	761	13.925	32.069	23.273	1.00	60.92
	4069	0	ILE	761	15.089	31.875	22.912	1.00	60.54
	4009	N	PRO	762	13.128	32.938	22.626	1.00	60.85
	4070	CD	PRO	762	11.810	32.652	22.044	1.00	60.12
20	4071	CA	PRO	762	13.999	33.474	21.571	1.00	60.84
	4072	CB	PRO	762	13.355	32.980	20.264	1.00	58.66
	4074	CG	PRO	762	12.240	32.017	20.716	1.00	58.17
25	4074	c	PRO	762	14.222	34.968	21.533	1.00	62.93
	4076	0	PRO	762	14.168	35.566	20.457	1.00	59.88
	4077	N	LYS	763	14.405	35.599	22.687	1.00	59.58
	ļ	CA	LYS	763	14.750	37.015	22.653	1.00	62.56
30	4078	СВ	LYS	763	14.713	37.645	24.045	1.00	61.84
	4079	CG	LYS	763	15.014	39.141	24.061	1.00	61.96
	4080	CD	LYS	763	14.703	39.723	25.430	1.00	62.42
35	4081	CE	LYS	763	13.428	39.096	25.979	1.00	61.00
	4082	NZ	LYS	763	12.992	39.651	27.285	1.00	62.85
	4084	C	LYS	763	16.182	36.666	22.292	1.00	58.43
40	4085	0	LYS	763	16.780	37.217	21.354	1.00	59.83
40	4086	N	TYR	764	16.668	35.665	23.036	1.00	59.46
	4087	CA	TYR	764	17.999	35.106	22.895	1.00	61.50
	4088	СВ	TYR	764	18.291	34.109	24.020	1.00	62.35
45	4089	CG	TYR	764	19.085	34.715	25.149	1.00	57.24
	4090	CD1	TYR	764	18.526	34.872	26.424	1.00	62.21
	4091	CE1	TYR	764	19.236	35.509	27.451	1.00	63.69
50	4092	CD2	TYR	764	20.378	35.200	24.927	1.00	62.73
	4092	CE2	TYR	764	21.095	35.837	25.942	1.00	62.44
	4094	CZ	TYR	764	20.516	35.992	27.195	1.00	65.70
	4094	OH	TYR	764	21.206	36.670	28.168	1.00	63.44
55	4095	- C	TYR	764	18.156	34.400	21.570	1.00	60.32
	4097	0	TYR	764	17.580	34.816	20.556	1.00	60.80

	ATOM	IIC COORDINATI	ES FOR THE (Z/DEX MODEL	`	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	В	ATOM
5	4098	N	SER	765	18.922	33.310	21.597	1.00	62.63
	4099	CA	SER	765	19.209	32.535	20.391	1.00	62.57
	4100	СВ	SER	765	17.908	31.971	19.777	1.00	63.02
10	4101	OG	SER	765	18.172	31.232	18.586	1.00	63.09
	4102	С	SER	765	19.904	33.487	19.403	1.00	61.20
	4103	0	SER	765	21.121	33.703	19.474	1.00	60.85
	4104	N	ASN	766	19.099	34.064	18.513	1.00	59.31
15	4105	CA	ASN	766	19.520	35.005	17.477	1.00	61.38
	4106	СВ	ASN	766	18.344	35.932	17.155	1.00	63.73
	4107	CG	ASN	766	17.006	35.195	17.116	1.00	60.04
20	4108	OD1	ASN	766	16.493	34.720	18.153	1.00	64.69
	4109	ND2	ASN	766	16.433	35.091	15.916	1.00	59.73
	4110	C	ASN	766	20.764	35.857	17.800	1.00	64.20
25	4111	0	ASN	766	21.906	35.462	17.491	1.00	60.72
23	4112	N	GLY	767	20.523	37.032	18.396	1.00	59.36
	4113	CA	GLY	767	21.589	37.961	18.766	1.00	63.17
	4114	С	GLY	767	21.096	39.388	19.032	1.00	61.77
30	4115	0	GLY	767	21.905	40.321	19.172	1.00	58.54
	4116	N	ASN	768	19.772	39.550	19.118	1.00	61.70
	4117	CA	ASN	768	19.115	40.849	19.347	1.00	60.25
35	4118	СВ	ASN	768	17.603	40.673	19.163	1.00	61.86
00	4119	CG	ASN	768	17.257	39.882	17.898	1.00	63.48
	4120	OD1	ASN	768	17.602	38.702	17.772	1.00	58.87
	4121	ND2	ASN	768	16.579	40.534	16.956	1.00	59.56
40	4122	С	ASN	768	19.400	41.566	20.692	1.00	61.21
	4123	0	ASN	768	18.781	42.595	20.987	1.00	57.65
	4124	N	ILE	769	20.323	41.011	21.490	1.00	60.01
45	4125	CA	ILE	769	20.764	41.563	22.792	1.00	60.44
	4126	СВ	ILE	769	20.851	40.456	23.891	1.00	60.23
	4127	CG2	ILE	769	21.520	41.004	25.161	1.00	65.73
	4128	CG1	ILE	769	19.461	39.920	24.234	1.00	64.63
50	4129	CD1	ILE	769	19.506	38.773	25.256	1.00	63.56
	4130	С	ILE	769	22.197	42.097	22.594	1.00	60.12
	4131	0	ILE	769	22.744	41.990	21.495	1.00	59.38
55	4132	N	LYS	770	22.799	42.660	23.643	1.00	58.87
	4133	CA	LYS	770	24.173	43.171	23.568	1.00	63.22
	4134	СВ	LYS	770	24.210	44.693	23.711	1.00	61.35

TABLE 3 (continued)

	ATOM	ATOMIC COORDINATES FOR THE GR/TIF2/DEX MODEL USED IN MOLECULAR REPLACEMENT									
	ATOM	ATOM TYPE	RESIDUE	#	X	Υ	Z	В	ATOM		
5	4135	CG	LYS	770	25.615	45.304	23.656	1.00	60.38		
	4136	CD	LYS	770	25.617	46.682	24.324	1.00	59.38		
	4137	CE	LYS	770	26.765	47.580	23.858	1.00	63.47		
10	4138	NZ	LYS	770	26.704	48.946	24.493	1.00	63.76		
10	4139	С	LYS	770	25.039	42.568	24.665	1.00	59.00		
	4140	0	LYS	770	24.962	42.967	25.829	1.00	63.74		
	4141	N	LYS	771	25.868	41.604	24.292	1.00	59.72		
15	4142	CA	LYS	771	26.742	40.984	25.268	1.00	60.78		
	4143	СВ	LYS	771	27.024	39.525	24.871	1.00	59.33		
	4144	CG	LYS	771	27.854	39.345	23.619	1.00	62.03		
20	4145	CD	LYS	771	28.351	37.906	23.466	1.00	63.82		
	4146	CE	LYS	771	29.538	37.838	22.501	1.00	59.76		
	4147	NZ	LYS	771	30.301	36.550	22.571	1.00	57.46		
	4148	С	LYS	771	28.044	41.798	25.413	1.00	61.42		
25	4149	0	LYS	771	28.800	41.976	24.459	1.00	58.76		
	4150	N	LEU	772	28.271	42.302	26.623	1.00	61.95		
	4151	CA	LEU	772	29.444	43.107	26.948	1.00	60.44		
30	4152	СВ	LEU	772	29.187	43.864	28.260	1.00	59.38		
	4153	CG	LEU	772	27.923	44.730	28.267	1.00	63.13		
	4154	CD1	LEU	772	27.630	45.253	29.656	1.00	60.11		
	4155	CD2	LEU	772	28.102	45.873	27.289	1.00	62.17		
35	4156	С	LEU	772	30.732	42.272	27.060	1.00	60.10		
	4157	0	LEU	772	30.764	41.233	27.718	1.00	60.79		
	4158	N	LEU	773	31.797	42.749	26.423	1.00	61.72		
40	4159	CA	LEU	773	33.074	42.055	26.428	1.00	60.85		
	4160	СВ	LEU	773	33.406	41.580	25.011	1.00	62.82		
	4161	CG	LEU	773	32.425	40.675	24.265	1.00	63.82		
	4162	CD1	LEU	773	32.927	40.451	22.866	1.00	60.94		
45	4163	CD2	LEU	773	32.285	39.352	24.966	1.00	62.11		
	4164	С	LEU	773	34.205	42.942	26.933	1.00	63.04		
	4165	0	LEU	773	34.271	44.126	26.625	1.00	62.16		
50	4166	N	PHE	774	35.101	42.352	27.712	1.00	60.13		
	4167	CA	PHE	774	36.246	43.072	28.248	1.00	61.57		
	4168	СВ	PHE	774	36.893	42.279	29.377	1.00	66.09		
<i>EE</i>	4169	CG	PHE	774	36.280	42.543	30.698	1.00	61.67		
55	4170	CD1	PHE	774	36.524	43.741	31.355	1.00	59.42		
	4171	CD2	PHE	774	35.385	41.650	31.248	1.00	56.29		

	ATOM	IIC COORDINATI	S FOR THE	GR/TIF2	Z/DEX MODEL I	USED IN MOI	LECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	В	ATOM
5	4172	CE1	PHE	774	35.879	44.050	32.536	1.00	64.79
	4173	CE2	PHE	774	34.729	41.948	32.435	1.00	61.83
	4174	CZ	PHE	774	34.978	43.155	33.080	1.00	62.07
10	4175	С	PHE	774	37.243	43.261	27.143	1.00	58.09
	4176	0	PHE	774	38.081	44.155	27.187	1.00	63.24
	4177	Z	HIS	775	37.131	42.398	26.143	1.00	61.71
	4178	CA	HIS	775	38.022	42.419	25.007	1.00	60.58
15	4179	СВ	HIS	775	39.060	41.319	25.175	1.00	63.99
	4180	CG	HIS	775	39.763	41.365	26.492	1.00	62.38
	4181	CD2	HIS	775	39.696	40.548	27.567	1.00	61.52
20	4182	ND1	HIS	775	40.616	42.389	26.838	1.00	62.48
	4183	CE1	HIS	775	41.042	42.202	28.074	1.00	59.32
	4184	NE2	HIS	775	40.498	41.092	28.538	1.00	62.24
25	4185	С	HIS	775	37.236	42.196	23.732	1.00	61.77
25	4186	0	HIS	775	36.461	41.252	23.633	1.00	62.62
	4187	N	GLN	776	37.425	43.083	22.765	1.00	58.75
	4188	CA	GLN	776	36.759	42.955	21.484	1.00	58.47
30	4189	СВ	GLN	776	36.460	44.340	20.893	1.00	58.08
	4190	CG	GLN	776	37.681	45.247	20.680	1.00	63.95
	4191	CD	GLN	776	38.236	45.221	19.250	1.00	62.81
35	4192	OE1	GLN	776	39.158	45.979	18.924	1.00	62.48
55	4193	NE2	GLN	776	37.680	44.353	18.397	1.00	60.08
	4194	С	GLN	776	37.724	42.163	20.599	1.00	60.33
	4195	0	GLN	776	37.269	41.235	19.894	1.00	61.93
40	4196	ОХТ	GLN	776	38.936	42.474	20.642	1.00	63.26
	4197	СВ	LYS	741	7.500	39.003	28.905	1.00	62.43
	4198	CG	LYS	741	8.600	39.530	28.004	1.00	60.91
45	4199	CD	LYS	741	9.141	40.875	28.431	1.00	59.52
	4200	CE	LYS	741	10.182	41.314	27.418	1.00	62.38
	4201	NZ	LYS	741	10.807	42.617	27.779	1.00	64.43
	4202	С	LYS	741	6.303	36.975	29.773	1.00	61.31
50	4203	0	LYS	741	6.054	35.766	29.829	1.00	59.09
	4204	N	LYS	741	6.417	37.458	27.272	1.00	62.30
	4205	CA	LYS	741	7.109	37.544	28.597	1.00	59.65
55	4206	N	GLU	742	5.905	37.867	30.689	1.00	62.69
	4207	CA	GLU	742	5.163	37.547	31.917	1.00	61.65
[4208	СВ	GLU	742	4.672	36.083	31.926	1.00	61.06

TABLE 3 (continued)

	ATOM	IIC COORDINATE	S FOR THE C	R/TIF2	DEX MODEL U	JSED IN MOL	ECULAR F	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	4209	CG	GLU	742	4.087	35.564	33.257	1.00	61.09
	4210	CD	GLU	742	2.705	36.123	33.568	1.00	62.31
	4211	OE1	GLU	742	2.138	35.720	34.616	1.00	57.45
10	4212	OE2	GLU	742	2.195	36.960	32.771	1.00	60.87
	4213	С	GLU	742	6.112	37.794	33.099	1.00	63.06
	4214	0	GLU	742	5.915	38.741	33.853	1.00	61.76
	4215	N	ASN	743	7.151	36.967	33.238	1.00	63.03
15	4216	CA	ASN	743	8.116	37.101	34.341	1.00	61.82
	4217	СВ	ASN	743	9.276	38.040	33.958	1.00	58.35
	4218	CG	ASN	743	10.217	37.445	32.909	1.00	59.24
20	4219	OD1	ASN	743	10.071	37.693	31.699	1.00	60.28
	4220	ND2	ASN	743	11.198	36.658	33.372	1.00	60.70
	4221	С	ASN	743	7.447	37.656	35.604	1.00	61.37
	4222	0	ASN	743	8.010	38.522	36.284	1.00	60.15
25	4223	N	ALA	744	6.245	37.167	35.907	1.00	60.68
	4224	CA	ALA	744	5.497	37.626	37.073	1.00	62.31
	4225	CB	ALA	744	4.024	37.229	36.940	1.00	62.38
30	4226	С	ALA	744	6.080	37.067	38.364	1.00	61.35
	4227	0	ALA	744	6.168	37.778	39.360	1.00	59.70
	4228	N	LEU	745	6.490	35.801	38.346	1.00	61.20
05	4229	CA	LEU	745	7.062	35.182	39.538	1.00	59.93
35	4230	СВ	LEU	745	7.419	33.710	39.276	1.00	63.15
	4231	CG	LEU	745	7.255	32.720	40.448	1.00	63.24
	4232	CD1	LEU	745	8.022	31.429	40.158	1.00	59.45
40	4233	CD2	LEU	745	7.759	33.342	41.745	1.00	59.90
	4234	С	LEU	745	8.313	35.934	39.987	1.00	59.41
	4235	0	LEU	745	8.520	36.123	41.182	1.00	59.83
45	4236	N	LEU	746	9.137	36.372	39.031	1.00	63.44
40	4237	CA	LEU	746	10.375	37.096	39.350	1.00	60.90
	4238	СВ	LEU	746	11.266	37.239	38.104	1.00	63.43
	4239	CG	LEU	746	12.771	36.991	38.300	1.00	64.10
50	4240	CD1	LEU	746	13.540	37.598	37.140	1.00	61.93
	4241	CD2	LEU	746	13.248	37.598	39.612	1.00	58.02
	4242	С	LEU	746	10.120	38.485	39.950	1.00	65.26
55	4243	0	LEU	746	10.649	38.808	41.025	1.00	59.76
	4244	N	ARG	747	9.334	39.308	39.255	1.00	61.19
	4245	CA	ARG	747	9.012	40.641	39.762	1.00	61.73

TABLE 3 (continued)

	ATOM	IIC COORDINATE	ES FOR THE	GR/TIF2	Z/DEX MODEL I	USED IN MO	LECULAR	REPLAC	EMENT
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	4246	СВ	ARG	747	7.844	41.256	38.975	1.00	59.04
	4247	CG	ARG	747	7.475	42.676	39.421	1.00	57.13
	4248	CD	ARG	747	6.596	43.434	38.407	1.00	58.93
10	4249	NE	ARG	747	7.362	44.324	37.522	1.00	59.01
	4250	CZ	ARG	747	7.556	44.118.	36.221	1.00	59.60
	4251	NH1	ARG	747	7.039	43.043	35.624	1.00	63.96
	4252	NH2	ARG	747	8.272	44.987	35.518	1.00	60.37
15	4253	C	ARG	747	8.651	40.511	41.247	1.00	61.37
	4254	0	ARG	747	9.155	41.257	42.090	1.00	62.28
	4255	Ν	TYR	748	7.799	39.541	41.565	1.00	62.06
20	4256	CA	TYR	748	7.399	39.306	42.941	1.00	60.54
	4257	СВ	TYR	748	6.517	38.050	43.003	1.00	60.69
	4258	CG	TYR	748	6.287	37.521	44.401	1.00	59.67
25	4259	CD1	TYR	748	7.077	36.488	44.908	1.00	60.21
25	4260	CE1	TYR	748	6.926	36.044	46.209	1.00	60.77
	4261	CD2	TYR	748	5.329	38.093	45.240	1.00	63.30
	4262	CE2	TYR	748	5.174	37.654	46.550	1.00	61.08
30	4263	CZ	TYR	748	5.977	36.631	47.027	1.00	62.49
	4264	ОН	TYR	748	5.864	36.204	48.331	1.00	59.76
	4265	С	TYR	748	8.593	39.190	43.908	1.00	63.27
35	4266	0	TYR	748	8.702	39.969	44.857	1.00	60.19
55	4267	N	LEU	749	9.484	38.229	43.663	1.00	62.27
	4268	CA	LEU	749	10.661	38.008	44.516	1.00	62.12
	4269	СВ	LEU	749	11.454	36.792	44.020	1.00	64.20
40	4270	CG	LEU	749	10.690	35.476	43.873	1.00	58.72
	4271	CD1	LEU	749	11.058	34.828	42.554	1.00	61.26
	4272	CD2	LEU	749	10.986	34.565	45.039	1.00	61.68
45	4273	С	LEU	749	11.589	39.223	44.561	1.00	61.27
	4274	0	LEU	749	12.241	39.497	45.571	1.00	60.09
	4275	N	LEU	750	11.658	39.946	43.455	1.00	60.39
	4276	CA	LEU	750	12.503	41.120	43.397	1.00	59.95
50	4277	СВ	LEU	750	12.603	41.607	41.959	1.00	59.67
	4278	CG	LEU	750	14.026	41.742	41.404	1.00	65.62
	4279	CD1	LEU	750	15.031	40.919	42.205	1.00	61.72
55	4280	CD2	LEU	750	14.005	41.302	39.953	1.00	61.66
	4281	С	LEU	750	11.954	42.216	44.298	1.00	58.16
	4282	0	LEU	750	12.712	42.855	45.032	1.00	61.93

TABLE 3 (continued)

	ATOM	IIC COORDINATE	S FOR THE C	GR/TIF2	/DEX MODEL U	JSED IN MOL	ECULAR F	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	4283	N	ASP	751	10.637	42.423	44.242	1.00	60.02
	4284	CA	ASP	751	9.969	43.428	45.073	1.00	61.63
	4285	СВ	ASP	751	8.539	43.658	44.616	1.00	59.82
10	4286	CG	ASP	751	8.381	44.973	43.912	1.00	60.49
	4287	OD1	ASP	751	9.166	45.214	42.968	1.00	59.40
	4288	OD2	ASP	751	7.491	45.767	44.298	1.00	59.17
	4289	С	ASP	751	9.941	43.037	46.531	1.00	62.48
15	4290	0	ASP	751	10.367	43.813	47.383	1.00	63.09
	4291	N	LYS	752	9.421	41.841	46.808	1.00	64.09
	4292	CA	LYS	752	9.346	41.308	48.164	1.00	60.89
20	4293	СВ	LYS	752	9.881	39.882	48.216	1.00	63.21
	4294	CG	LYS	752	9.051	38.811	47.568	1.00	57.72
	4295	CD	LYS	752	9.168	37.532	48.396	1.00	60.58
	4296	CE	LYS	752	8.769	37.801	49.858	1.00	63.26
25	4297	NZ	LYS	752	8.598	36.571	50.686	1.00	60.07
	4298	С	LYS	752	10.218	42.123	49.090	1.00	59.75
	4299	0	LYS	752	11.426	42.228	48.869	1.00	61.26
30	4300	N	ASP	753	9.644	42.700	50.132	1.00	64.75
	4301	CA	ASP	753	10.478	43.462	51.039	1.00	60.32
	4302	СВ	ASP	753	9.643	44.126	52.126	1.00	62.72
25	4303	CG	ASP	753	10.496	44.762	53.198	1.00	62.87
35	4304	OD1	ASP	753	11.420	45.549	52.863	1.00	59.14
	4305	OD2	ASP	753	10.239	44.468	54.382	1.00	63.19
	4306	С	ASP	753	11.455	42.468	51.647	1.00	60.33
40	4307	0	ASP	753	12.111	42.750	52.646	1.00	61.12
	4308	N	ALA	754	11.528	41.304	51.008	1.00	59.93
	4309	CA	ALA	754	12.396	40.177	51.356	1.00	61.16
45	4310	СВ	ALA	754	12.896	39.509	50.053	1.00	64.36
45	4311	С	ALA	754	13.587	40.401	52.307	1.00	59.44
	4312	0	ALA	754	14.700	39.937	52.047	1.00	61.71
	4313	N	THR	755	13.355	41.108	53.403	1.00	60.67
50	4314	CA	THR	755	14.375	41.342	54.420	1.00	60.98
	4315	СВ	THR	755	15.250	42.613	54.137	1.00	63.96
	4316	OG1	THR	755	14.460	43.794	54.313	1.00	60.28
55	4317	CG2	THR	755	15.824	42.582	52.696	1.00	57.43
50	4318	С	THR	755	13.505	41.499	55.671	1.00	59.27
	4319	0	THR	755	13.323	42.586	56.237	1.00	60.51

	ATOM	IIC COORDINATE	S FOR THE	GR/TIF2	Z/DEX MODEL I	JSED IN MOL	ECULAR	REPLAC	EMENT
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	В	ATOM
5	4320	N	ALA	756	12.918	40.356	56.024	1.00	62.21
	4321	CA	ALA	756	12.025	40.165	57.162	1.00	59.83
	4322	СВ	ALA	756	11.075	38.993	56.870	1.00	60.21
10	4323	С	ALA	756	12.890	39.842	58.372	1.00	61.08
	4324	0	ALA	756	12.461	39.941	59.531	1.00	61.80
	4325	N	ALA	757	14.115	39.426	58.072	1.00	62.43
	4326	CA	ALA	757	15.087	39.099	59.092	1.00	60.57
15	4327	СВ	ALA	757	16.415	38.753	58.431	1.00	60.81
	4328	С	ALA	757	15.211	40.367	59.932	1.00	61.35
	4329	0	ALA	757	15.146	41.460	59.327	1.00	62.10
20	4330	ОХТ	ALA	757	15.354	40.253	61.169	1.00	58.48
	4331	0	НОН	1	62.349	-1.370	59.183	1.00	61.82
	4332	0	НОН	2	63.098	9.775	56.010	1.00	63.21
25	4333	0	НОН	3	29.467	50.468	47.493	1.00	60.82
23	4334	0	НОН	4	24.799	1.025	51.054	1.00	63.04
	4335	0	НОН	5	25.120	35.371	29.890	1.00	58.53
	4336	0	НОН	6	62.603	13.819	69.179	1.00	62.10
30	4337	0	НОН	7	43.394	-0.575	64.086	1.00	61.07
	4338	0	НОН	8	33.029	27.080	24.812	1.00	63.53
	4339	0	НОН	9	40.476	0.604	50.517	1.00	62.87
35	4340	0	НОН	10	42.083	33.017	29.431	1.00	59.31
	4341	0	НОН	11	40.224	-1.905	63.310	1.00	60.38
	4342	0	НОН	12	29.926	49.219	30.317	1.00	60.19
	4343	0	НОН	13	63.481	3.211	57.703	1.00	62.93
40	4344	0	НОН	14	45.679	44.833	38.756	1.00	60.97
	4345	0	НОН	15	21.388	1.839	41.400	1.00	61.41
	4346	0	нон	16	47.452 -	16.061	63.707	1.00	60.73
45	4347	0	НОН	17	52.653	15.955	63.901	1.00	64.75
	4348	0	НОН	18	62.913	1.964	67.923	1.00	64.33
	4349	0	НОН	19	62.507	3.936	69.792	1.00	60.95
	4350	0	нон	20	11.730	26.749	44.436	1.00	60.79
50	4351	0	нон	21	48.735	13.308	64.587	1.00	62.06
	4352	0	НОН	22	32.377	39.863	58.144	1.00	63.51
	4353	0	НОН	23	58.924	9.831	70.947	1.00	61.40
55	4354	0	нон	24	39.278	17.448	64.290	1.00	62.12
	4355	0	нон	25	40.573	48.042	36.816	1.00	60.96
	4356	0	нон	26	40.494	35.299	48.387	1.00	59.93

TABLE 3 (continued)

	ATO	410 000000			 	<u> </u>			
		MIC COORDINAT	ES FOR THE	GR/TIF	2/DEX MODEL	USED IN MO	DLECULAR	REPLA	CEMENT
5	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	В	ATOM
	4357	0	НОН	27	61.454	1.678	61.901	1.00	60.51
	4358	0	НОН	28	9.075	22.638	42.296	1.00	61.65
	4359	0	НОН	29	51.369	13.900	63.592	1.00	64.00
10	4360	0	нон	30	61.184	-0.481	44.937	1.00	61.95
	4361	0	НОН	31	19.041	16.035	52.737	1.00	60.85
	4362	0	НОН	32	37.487	3.963	49.092	1.00	60.40
15	4363	0	НОН	33	31.183	34.399	55.395	1.00	61.32
,,,	4364	0	НОН	34	25.672	33.490	53.795	1.00	61.76
	4365	0	НОН	35	24.467	27.177	45.107	1.00	62.37
	4366	0	НОН	36	47.899	30.685	35.691	1.00	60.62
20	4367	0	нон	37	31.250	45.014	24.427	1.00	63.26
	4368	0	нон	38	60.719	-0.340	49.987	1.00	60.94
	4369	0	нон	39	48.761	14.305	46.147	1.00	59.45
25	4370	0	нон	40	52.252	11.824	45.533	1.00	59.86
20	4371	0	нон	41	40.704	30.604	47.765	1.00	62.04
	4372	0	нон	42	34.599	19.541	73.265	1.00	61.69
	4373	0	нон	43	44.135	32.951	48.092	1.00	60.11
30	4374	0	НОН	44	16.447	16.136	55.224	1.00	58.77
	4375	0	НОН	45	37.470	21.079	29.057	1.00	61.47
	4376	0	НОН	46	14.411	15.785	52.085	1.00	58.97
35	4377	0	нон	47	27.199	25.588	51.919	1.00	58.58
	4378	0	нон	48	32.466	25.097	53.254	1.00	60.88
	4379	0	нон	49	17.927	39.612	49.972	1.00	61.48
	4380	0	нон	50	17.243	38.022	52.339	1.00	61.61
40	4381	0	нон	51	65.714	6.374	72.458	1.00	61.45
	4382	0	НОН	52	25.540	34.686	57.601	1.00	59.81
	4383	0	нон	53	22.812	3.452	38.767	1.00	62.42
45	4384	C1	DEX	1	31.791	3.330	56.615	1.00	59.00
	4385	H1	DEX	1	30.892	2.719	56.626	1.00	59.00
	4386	C2	DEX	1	32.066	4.057	55.552	1.00	59.00
	4387	H2	DEX	1	31.418	4.016	54.717	1.00	59.00
50	4388	СЗ	DEX	1	33.314	4.929	55.514	1.00	59.00
	4389	C4	DEX	1	34.176	5.061	56.733	1.00	59.00
	4390	H4	DEX	1	35.013	5.729	56.720	1.00	59.00
55	4391	C5	DEX	1	33.915	4.329	57.855	1.00	59.00
ſ	4392	C6	DEX	1	34.782	4.456	59.133	1.00	59.00
[4393	H61	DEX	1	35.558	5.172	59.015	1.00	59.00
_		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u></u>		<u> </u>	<u>-</u>			

TABLE 3 (continued)

	ATOM	IIC COORDINATE	ES FOR THE (Z/DEX MODEL I	<u> </u>	LECULAR	REPLAC	EMENT
	АТОМ	ATOM TYPE	RESIDUE	#	x	Y	Z	В	ATOM
5	4394	H62	DEX	1	35.262	3.483	59.339	1.00	59.00
	4395	C7	DEX	1	33.905	4.834	60.331	1.00	59.00
	4396	H71	DEX	1	33.520	5.861	60.202	1.00	59.00
10	4397	H72	DEX	1	34.515	4.837	61.236	1.00	59.00
	4398	C8	DEX	1	32.690	3.903	60.544	1.00	59.00
	4399	Н8	DEX	1	33.063	2.878	60.787	1.00	59.00
	4400	C9	DEX	1	31.759	3.803	59.162	1.00	59.00
15	4401	C10	DEX	1	32.677	3.304	57.900	1.00	59.00
	4402	C11	DEX	1	30.360	2.986	59.327	1.00	59.00
	4403	H11	DEX	1	29.743	3.203	58.478	1.00	59.00
20	4404	C12	DEX	1	29.599	3.415	60.596	1.00	59.00
	4405	H121	DEX	1	28.744	2.788	60.729	1.00	59.00
	4406	H122	DEX	1	29.221	4.448	60.436	1.00	59.00
25	4407	C13	DEX	1	30.518	3.414	61.924	1.00	59.00
25	4408	C14	DEX	1	31.758	4.387	61.726	1.00	59.00
	4409	H14	DEX	1	31.359	5.403	61.401	1.00	59.00
	4410	C15	DEX	1	32.374	4.589	63.095	1.00	59.00
30	4411	H151	DEX	1	32.893	5.547	63.111	1.00	59.00
	4412	H152	DEX	1	33.119	3.796	63.281	1.00	59.00
	4413	C16	DEX	1	31.175	4.486	64.093	1.00	59.00
35	4414	H16	DEX	1	31.391	3.605	64.743	1.00	59.00
00	4415	C17	DEX	1	29.863	4.144	63.168	1.00	59.00
	4416	C18	DEX	1	30.929	1.834	62.325	1.00	59.00
	4417	H181	DEX	1	31.535	1.833	63.241	1.00	59.00
40	4418	H182	DEX	1	30.050	1.248	62.496	1.00	59.00
	4419	H183	DEX .	1	31.537	1.374	61.558	1.00	59.00
	4420	C19	DEX	1	33.270	1.833	58.015	1.00	59.00
45	4421	H191	DEX	1	33.916	1.724	58.905	1.00	59.00
	4422	H192	DEX	1	32.485	1.095	58.112	1.00	59.00
	4423	H193	DEX	1	33.870	1.605	57.134	1.00	59.00
	4424	C20	DEX	1	28.759	3.270	63.873	1.00	59.00
50	4425	C21	DEX	1	27.338	3.348	63.353	1.00	59.00
	4426	H211	DEX	1	27.350	3.637	62.283	1.00	59.00
	4427	H212	DEX	1	26.827	4.148	63.876	1.00	59.00
55	4428	C22	DEX	1	31.008	5.693	64.947	1.00	59.00
	4429	H221	DEX	1	30.160	5.560	65.619	1.00	59.00
	4430	H222	DEX	1	31.912	5.877	65.542	1.00	59.00

TABLE 3 (continued)

	TABLE 3 (continued) ATOMIC COORDINATES FOR THE GR/TIF2/DEX MODEL USED IN MOLECULAR REPLACEMENT										
	ATOM	C COORDINATE				Y	Z	В	ATOM		
	ATOM	ATOM TYPE	RESIDUE	#	X 30.811	6.588	64.313	1.00	59.00		
	4431	H223	DEX	1	31.331	5.130	58.833	1.00	59.00		
	4432	F1	DEX	1	33.617	5.512	54.507	1.00	59.00		
	4433	01	DEX	1 1		1.580	59.361	1.00	59.00		
	4434	02	DEX	1 1	30.601	1.163	59.706	1.00	59.00		
	4435	HO2	DEX	1 -	29.784	5.409	62.711	1.00	59.00		
	4436	03	DEX	1 1	29.236	5.780	63.475	1.00	59.00		
	4437	Н3	DEX	1 1	28.816	2.511	64.818	1.00	59.00		
	4438	04	DEX	1	29.058	2.117	63.492	1.00	59.00		
	4439	05	DEX	1	26.689	2.344	63.756	1.00	59.00		
	4440	H5	DEX	1	25.816		37.624	1.00	59.00		
)	4441	C1	DEX	1	21.344	23.582	37.634	1.00	59.00		
	4442	H1	DEX	1 1	20.325	23.208	38.670	1.00	59.00		
	4443	C2	DEX	1	22.105	23.392	39.509	1.00	59.00		
	4444	H2	DEX	1	21.710	22.910		1.00	59.00		
5	4445	C3	DEX	1	23.539	23.892	38.687	1.00	59.00		
	4446	C4	DEX	1	24.137	24.501	37.450	1.00	59.00		
	4447	H4	DEX	1	25.173	24.791	37.441	 	59.00		
0	4448	C5	DEX	1	23.372	24.700	36.346	1.00	59.00		
_	4449	C6	DEX	1	23.965	25.312	35.061	1.00	59.00		
	4450	H61	DEX	1	24.996	25.542	35.157	1.00	59.00		
	4451	H62	DEX	1	23.444	26.267	34.853	1.00	59.00		
35	4452	C7	DEX	1	23.752	24.345	33.877	1.00	59.00		
	4453	H71	DEX	1	24.370	23.444	34.001	1.00	L		
	4454	H72	DEX	1	24.092	24.829	32.956		59.00		
40	4455	C8	DEX	1	22.275	23.885	33.692		59.00		
40	4456	H8	DEX	1	21.638	24.764	33.460		59.00		
	4457	C9	DEX	1	21.676	23.232	35.081		59.00		
	4458	C10	DEX	1	21.819	24.294	36.329		59.00		
45	4459	C11	DEX	1	20.197	22.585	34.938		59.0		
	4460	H11	DEX	1	20.028	21.974	35.784		59.0		
	4461	C12	DEX	1	20.107	21.699	33.700	1.00	59.0		
50	4462	H121	DEX	1	19.130	21.365	33.60	2 1.00	59.0		
90	4463	H122	DEX	1	20.720	20.795	33.85		59.0		
	<u> </u>	C13	DEX	1	20.600	22.429	32.34	4 1.00			
	4464		DEX	1	22.105	22.863	32.51	5 1.00			
55	4465		DEX	-	22.70	21.953	32.83	4 1.00			
	4466		DEX	1	22.602	2 23.242	31.12	9 1.00	59.0		

TABLE 3 (continued)

	ATOMIC COORDINATES FOR THE GR/TIF2/DEX MODEL USED IN MOLECULAR REPLACEMENT									
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	В	ATOM	
5	4468	H151	DEX	1	23.685	23.110	31.097	1.00	59.00	
	4469	H152	DEX	1	22.383	24.310	30.934	1.00	59.00	
	4470	C16	DEX	1	21.806	22.306	30.152	1.00	59.00	
10	4471	H16	DEX	1	21.207	22.984	29.504	1.00	59.00	
	4472	C17	DEX	1	20.783	21.450	31.097	1.00	59.00	
	4473	C18	DEX	1	19.540	23.677	31.944	1.00	59.00	
	4474	H181	DEX	1	19.873	24.157	31.015	1.00	59.00	
15	4475	H182	DEX	1	18.547	23.297	31.792	1.00	59.00	
	4476	H183	DEX	1	19.525	24.449	32.700	1.00	59.00	
	4477	C19	DEX	1	20.959	25.638	36.205	1.00	59.00	
20	4478	H191	DEX	1	21.232	26.215	35.303	1.00	59.00	
	4479	H192	DEX	1	19.899	25.426	36.127	1.00	59.00	
	4480	H193	DEX	1	21.132	26.270	37.072	1.00	59.00	
05	4481	C20	DEX	1	19.417	21.067	30.421	1.00	59.00	
25	4482	C21	DEX	1	18.443	20.176	31.204	1.00	59.00	
	4483	H211	DEX	1	17.932	20.800	31.959	1.00	59.00	
	4484	H212	DEX	1	19.031	19.423	31.779	1.00	59.00	
30	4485	C22	DEX	1	22.671	21.454	29.301	1.00	59.00	
	4486	H221	DEX	1	22.061	20.835	28.644	1.00	59.00	
	4487	H222	DEX	1	23.334	22.077	28.688	1.00	59.00	
35	4488	H223	DEX	1	23.300	20.785	29.933	1.00	59.00	
55	4489	F1	DEX	1	22.519	22.128	35.397	1.00	59.00	
	4490	0	DEX	1	24.201	23.808	39.692	1.00	59.00	
	4491	02	DEX	1	19.179	23.598	34.905	1.00	59.00	
40	4492	HO2	DEX	1	18.367	23.168	34.580	1.00	59.00	
	4493	03	DEX	1	21.444	20.210	31.554	1.00	59.00	
	4494	нз	DEX	1	21.502	19.648	30.802	1.00	59.00	
45	4495	04	DEX	1	19.127	21.505	29.299	1.00	59.00	
. •	4496	05	DEX	1	17.530	19.572	30.381	1.00	59.00	
	4497	H5	DEX	1	17.435	18.711	30.744	1.00	59.00	

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TABLE 4 ATOMIC COORDINATES OF AR IN COMPLEX WITH BICALUTAMIDE OBTAINED FROM HOMOLOGY MODELING OF THE CRYSTAL STRUCTURE COORDINATES OF GR_{α} IN COMPLEX WITH FP

5	OBT	AINED FRO	M HUMUL	JGY MODE	IN COMPL	FX WITH F	P
5	STR	CUCTURE C	OORDINAT	ES OF GRA	IN COME		70年20年5月
			gosidaes Voic	- Measilyte			
	A Alom	wint Min.	EV. inc	a Simia.	eradbite.	(minulians)	in our more
	. K(IIJ))iii+.				-7.802	44.333	21.810
40	1	N	ILE	672	-8.615	43.811	21.453
10	2	HN1	ILE	672	-8.089	44.905	22.617
	3	HN2	ILE	672	-7.435	44.946	21.068
	4	HN3	ILE	672	-6.772	43.402	22.220
	5	CA	ILE	672	-5.691	44.331	22.701
	6	C	ILE	672	-5.692	45.515	22.363
15	7	0	ILE	672	-6.276	42.491	21.024
	8	CB	ILE	672	-5.637	43.272	19.831
	9	CG1	ILE	672	-7.403	41.575	20.455
	10	CG2	ILE	672	-4.861	42.419	18.807
	11	CD1	ILE	673	-4.769	43.820	23.494
20	12	N	PHE	673	-3.723	44.678	24.008
	13	CA	PHE	673	-4.793	42.850	23.738
	14	HN	PHE	673	-2.862	45.295	22.900
	15	C	PHE	673	-2.512	46.478	22.951
	16	0	PHE	673	-2.800	43.874	24.973
25	17	CB	PHE	673	-1.802	44.693	25.806
	18	CG	PHE	673	-2.082	46.032	26.100
	19	CD1	PHE	673	-1.154	46.810	26.784
	20	CE1	PHE	673	0.054	46.249	27.194
	21	CZ	PHE	673	0.335	44.913	26.915
00	22	CE2	PHE	673	-0.590	44.136	26.221
30	23	CD2	PHE	674	-2.522	44.494	21.898
	24	N	LEU	674	-1.722	44.978	20.786
	25	CA	LEU	674	-2.821	43.540	21.909
	26	HN	LEU	674	-2.622	45.837	19.898
	27	C	LEU	674	-2.149	46.600	19.056
35	28	0	LEU	674	-1.153	43.767	19.994
	29	CB	LEU	674	-2.157	42.828	19.272
	30	CG	LEU	674	-1.413	41.640	18.646
	31	CD1	LEU	674	-3.264	42.312	20.205
	32	CD2	ASN	675	-3.931	45.693	20.088
40	33	N CA	ASN	675	-4.913	46.442	19.306
	34	CA	ASN	675	-4.252	45.054	20.786
	35	HN	ASN	675	-4.860	47.910	19.668
	36	<u>C</u>	ASN	675	-4.889	48.806	18.829
	37	0	ASN	675	-6.326	45.855	19.591
45	38	CB CG	ASN	675	-7.519	46.577	18.957
	39		ASN	675	-8.064	46.168	17.942
	40	OD1	ASN	675	-7.952	47.679	19.507
	41	ND2 1HD2	ASN	675	-8.644	48.159	18.925
	42	2HD2	ASN	675	-7.420	48.042	20.298
50	43		VAL	676	-4.799	48.126	20.963
30	44	N CA	VAL	676	-4.752	49.439	21.528
	45	CA	VAL	676	-4.785	47.339	21.580
	46	HN	VAL	676	-3.362	50.002	21.308
	47	c	1 175				

		T .			T 2 4 2 2	7	Υ
	48	0	VAL	676	-3.176	51.208	21.154
	49	СВ	VAL	676	-5.057	49.282	23.071
	50	CG1	VAL	676	-5.366	50.591	23.849
5	51	CG2	VAL	676	-6.239	48.333	23.383
	52	N	LEU	677	-2.374	49.119	21.292
	53	CA	LEU	677	-1.001	49.552	21.090
	54	HN	LEU	677	-2.574	48.147	21.419
	55	С	LEU	677	-0.869	50.119	19.665
10	56	0	LEU	677	-0.131	51.073	19.421
,,,	57	CB	LEU	677	-0.068	48.363	21.316
	58	CG	LEU	677	1.249	48.527	22.075
	59	CD1	LEU	677	1.094	49.268	23.390
	60	CD2	LEU	677	1.764	47.137	22.328
	61	N	GLU	678	-1.606	49.544	18.727
15	62	CA	GLU	678	-1.548	50.045	17.376
	63	HN	GLU	678	-2.197	48.770	18.954
	64	C	GLU	678	-2.330	51.346	17.200
	65	0	GLU	678	-1.845	52.246	16.524
	66	CB	GLU	678	-2.055	49.004	16.399
20	67	CG	GLU	678	-2.187	49.525	14.999
	68	CD	GLU	678	-2.559	48.425	14.030
	69	OE1	GLU	678	-2.750	48.734	12.830
	70	OE2	GLU	678	-2.654	47.252	14.473
	71 .	HE2	GLU	678	-2.890	46.667	13.769
25	72	N	ALA	679	-3.518	51.484	17.797
	73	CA	ALA	679	-4.251	52.738	17.584
	74	HN	ALA	679	-3.895	50.756	18.370
	75	C	ALA	679	-3.645	53.964	18.253
	76	0	ALA	679	-4.043	55.082	17.931
<i>30</i> .	77	CB	ALA	679	-5.746	52.562	17.903
	79	N CA	ILE ILE	680	-2.694	53.786 54.944	19.173
	80	HN	ILE	680	-2.401	52.861	19.831
	81	C	ILE	680	-0.672	55.231	19.414
	82	Ö	ILE	680	0.069	56.001	19.939
35	83	СВ	ILE	680	-1.980	54.783	21.367
00	84	CG2	ILE	680	-3.269	54.216	21.925
	85	CG1	ILE	680	-0.801	53.879	21.725
	86	CD1	ILE	680	-0.571	53.751	23.208
	87	N	GLU	681	-0.301	54.606	18.214
40	88	CA	GLU	681	1.020	54.801	17.640
7 0	89	HN	GLU	681	-0.944	53.988	17.762
	90	c	GLU	681	1.093	56.227	17.144
	91	0	GLU	681	0.147	56.718	16.543
	92	CB	GLU	681	1.237	53.825	16.483
	93	CG	GLU	681	2.643	53.807	15.879
45	94	CD	GLU	681	3.760	53.831	16.920
	95	OE1	GLU	681	3.570	53.258	18.018
	96	OE2	GLU	681	4.832	54.412	16.631
	97	HE2	GLU .	681	5.431	54.351	17.360
	98	N	PRO	682	2.175	56.936	17.458
50	99	CA	PRO	682	2.103	58.288	16.900
	100	CD	PRO	682	2.934	56.915	18.715
	101	C	PRO	682	2.205	58.244	15.379
	102	0	PRO	682	2.532	57.209	14.789

						59.025	17.552
		Ton	PRO	682	3.278	58.034	18.527
	103	CB	PRO	682	3.904	59.358	14.734
	104	CG	GLY	683	1.908	59.373	13.291
	105	N	GLY	683	1.978		15.237
	106	CA	GLY	683	1.640	60.179	12.862
	107	HN	GLY	683	3.198	60.165	13.536
	108	C	_	683	3.578	61.122	11.747
	109	0	GLY	684	3.807	59.769	11.267
	110	N	VAL	684	5.011	60.440	
	111	CA	VAL	684	3.433	58.999	11.229
0	112	HN	VAL	684	4.883	61.937	11.156
	113	C	VAL	684	3.915	62.458	10.610
	114	0	VAL	684	5.466	59.926	9.887
	115	CB	VAL	684	5.969	58.504	10.001
	116	CG1	VAL		4.322	60.031	8.885
5	117	CG2	VAL	684	5.876	62.639	11.673
5	118	N	VAL	685	5.853	64.080	11.590
	119	CA	VAL	685	6.640	62.174	12.120
		HN	VAL	685	7.097	64.568	10.856
	120	C	VAL	685	8.225	64.160	11.169
	121	10	VAL	685		64.727	13.029
20	122	CB	VAL	685	5.760	64.371	14.020
	123	CG1	VAL	685	6.902	66.273	13.019
	124	CG2	VAL	685	5.694	65.427	9.863
	125		CYS	686	6.859	65.995	9.007
	126	N	CYS	686	7.899		9.695
05	127	CA	CYS	686	5.911	65.698	9.690
25	128	HN	CYS	686	8.844	66.938	10.759
	129	C	CYS	686	8.559	67.480	7.770
	130	0	CYS	686	7.230	66.625	6.733
	131	CB	CYS	686	6.474	65.353	5.769
	132	SG		686	7.391	65.368	
30	133	HG	CYS	687	9.970	67.152	9.023
	134	N	ALA	687	11.028	67.995	9.539
	135	CA	ALA	687	10.094	66.714	8.133
	136	HN	ALA		10.956	69.476	9.185
	137	C	ALA	687	11.644	70.281	9.806
	138	0	ALA	687	12.359	67.437	9.100
35	139	CB	ALA	687	10.141	69.846	8.202
	140	N	GLY	688	10.070	71.249	7.828
		CA	GLY	688	9.583	69.167	7.725
	141	HN	GLY	688	11.444	71.762	7.423
	142	$-\frac{1}{C}$	GLY	688		72.816	7.879
40	143	- 0	GLY	688	11.889	71.003	6.571
	144	- N	HIS	689	12.131	71.376	6.102
	145	CA	HIS	689	13.464	70.152	6.241
	146		HIS	689	11.722	72.135	4.797
	147	HN	HIS	689	13.342		4.040
	148	C	HIS	689	12.377	71.977	5.908
45	149	0	HIS	689	14.316	70.110	5.713
	150	CB	HIS	689	15.770	70.426	6.702
	151	CG		689	16.648	70.861	
	152	ND1	HIS	689	17.810	70.790	6.025
	153	CE1	HIS	689	17.774	70.371	4.731
50	154	NE2	HIS		16.438	70.133	4.533
50	155	CD2	HIS	689	18.550	70.256	4.064
	156	HE2	HIS	689	14.333	72.973	4.559
	130	N	ASP	690	(14.333		

	158	CA	ASP	690	14.410	73.739	3.341
	159	HN	ASP	690	15.053	73.080	5.244
	160	C	ASP	690	15.539	73.046	2.609
5	161	0	ASP	690	16.711	73.253	2.928
	162	CB	ASP	690	14.800	75.178	3.628
	163	CG	ASP	690	14.786	76.022	2.386
	164	OD1	ASP	690	14.680	75.431	1.294
	165	OD2	ASP	690	14.880	77.259	2,497
	166	HD2	ASP	690	14.857	77.655	1.640
10	167	N	ASN	691	15.183	72.196	1.658
	168	CA	ASN	691	16.168	71.457	0.886
	169	HN	ASN	691	14.211	72.058	1.467
	170	C	ASN	691	16.414	72.208	-0.411
	171	ō	ASN	691	17.014	71.684	-1.351
15	172	CB	ASN	691	15.643	70.020	0.600
	173	CG	ASN	691	14.332	69.904	-0.185
	174	OD1	ASN	691	14.308	69.649	-1.380
	175	ND2	ASN	691	13.204	70.107	0.441
	176	1HD2	ASN	691	12.406	70.157	-0.199
20	177	2HD2	ASN	691	13.262	70.406	1.415
20	178	N	ASN	692	15.935	73.449	-0.435
	179	CA	ASN	692	16.057	74.325	-1.592
	180	HN	ASN	692	15.470	73.797	0.379
	181	C	ASN	692	17.406	74.995	-1.581
	182	16	ASN	692	17.708	75.846	-2.418
25		CB	ASN	692	14.916		
	183	CG	ASN	692	15.214	75.383	-1.546
	185	OD1	ASN	692	15.510	76.694	-0.812
							-1.406
	186	ND2 1HD2	ASN	692	15.173 15.534	76.709	0.493
30		2HD2		692		77.583	0.885
	188		ASN		15.013		0.961
	189	N CA	GLN	693	18.223	74.651	-0.605
		CA	GLN		19.516	75.267	-0.548
	191	HN	GLN	693	17.947	73.976	0.079
35	192	C	GLN	693	20.441	74.218	0.032
33	193	0	GLN	693	20.051	73.480	0.945
	194	CB	GLN	693	19.445	76.508	0.368
	195	CG	GLN	693	18.110	77.323	0.324
	196	CD	GLN	693	17.987	78.603	1.161
	197	OE1	GLN	693	16.977	79.287	1.123
40	198	NE2	GLN	693	18.986	78.991	1.913
	199	2HE2	GLN	693	19.825	78.413	1.846
	200	1HE2	GLN	693	18.847	79.886	2.386
	201	N	PRO	694	21.688	74.161	-0.473
	202	CA	PRO	694	22.654	73.163	-0.016
45	203	CD	PRO	694	22.365	75.246	-1.206
	204	C	PRO	694	22.661	72.720	1.398
	205	0	PRO	694	22.222	73.405	2.316
	206	CB	PRO	694	24.018	73.697	-0.465
	207	CG	PRO	694	23.811	75.102	-0.777
50	208	N	ASP	695	23.175	71.516	1.550
50	209	CA	ASP	695	23.249	70.949	2.849
	210	HN	ASP	695	23.510	71.006	0.757
	211	C	ASP	695	24.549	71.260	3.463
	212	0	ASP	695	25.441	71.872	2.877

				1 605	23.090	69.450	2.784
	213	CB	ASP	695	21.834	69.063	2.108
	214	CG	ASP	695	20.895	69.889	2.139
	215	OD1	ASP	695 695	21.777	67.951	1.553
	216	OD2	ASP		20.924	67.836	1.165
	217	HD2	ASP	695	24.636	70.819	4.690
	218	N	SER	696	25.822	70.972	5.447
	219	CA	SER	696	23.847	70.365	5.104
	220	HN	SER	696	25.383	70.258	6.675
	221		SER	696	24.203	70.267	7.041
	222	0	SER	696	26.139	72.446	5.692
	223	CB	SER	696	25.437	73.057	6.764
	224	OG	SER	696	25.733	73.975	6.792
	225	HG	SER	697	26.530	69.629	7.299
	226	N	PHE	697	26.464	68.629	8.376
	227	CA	PHE	697	27.449	69.713	6.888
	228	HN	PHE	697	25.787	69.190	9.644
	229	C	PHE	697	24.983	68.458	10.181
	230		PHE	697	27.792	67.916	8.744
	231	CB	PHE	697	28.885	68.879	9.171
,	232	CG	PHE	697	29.085	69.233	10.558
	233	CD1	PHE	697	30.116	70.166	10.939
	234	CEI	PHE	697	30.974	70.747	9.940
	235	CZ	PHE	697	30.793	70.386	8.561
	236	CE2	PHE	697	29.762	69.457	8.182
5	237	CD2	ALA	698	26.114	70.494	11.074
	238	N CA	ALA	698	25.527	71.392	9.969
	239	HN	ALA	698	27.103	70.500	10.449
	240	C	ALA	698	24.166	71.500	10.391
	241	0	ALA	698	23.510	70.508	11.082
20	242	CB	ALA	698	26.288	72,729	9.944
30	243	N N	ALA	699	23.678	72.598	9.371
	244	CA	ALA	699	22.339	73.462	9.948
	245	HN	ALA	699	24.182	71.259	9.586
	246	C	ALA	699	21.405	71.418	9,959
	247	- lö	ALA	699	20.255	72.827	7,885
35	248	CB	ALA	699	22.524	70.055	9.313
	249	N	LEU	700	21.874	68.898	9,427
	251	CA	LEU	700	21.016	69.943	9.027
	252	HN	LEU	700	22.825	68.217	10.741
	253	C	LEU	700	20.937	67.556	11.097
40	254	0	LEU	700	21.502	67.918	8.322
	255	СВ	LEU	700	21.248	68.304	6.839
	256	CG	LEU	700	21.362	67.062	5.944
	257	CD1	LEU	700	19.881	68.973	6.626
	258	CD2	LEU	700	22.241	67.945	11.274
45	259	N	LEU	701	22.393	67.526	12.650
	260	CA	LEU	701	23.099	68.182	10.776
	261	HN	LEU	701	21.407	68.489	13.358
	262	C	LEU	701	20.678	68.015	14.213
	263	0	LEU	701	23.817	67.670	13.228
50	264	CB	LEU	701	24.838	66.645	12.675
	265	CG	LEU	701	26.284	67.148	12.829
	266	CD1	LEU	701	24.711	65.277	13.353
	267	CD2	LEU	701			

							
	268	N	SER	702	21.348	69.874	12.942
	269	CA	SER	702	20.571	70.736	13.707
	270	HN	SER	702	21.934	70.156	12.182
5	271	C	SER	702	19.114	70.479	13.542
	272	0	SER	702	18.437	70.227	14.534
	273	CB	SER	702	20.916	72.229	13.479
	274	OG	SER	702	21.723	72.780	14.526
	275	HG	SER	702	21.208	72.741	15.337
	276	N	SER	703	18.549	70.230	12.261
10	277	CA	SER	703	17.171	69.657	12.150
	278	HN	SER	703	19.093	70.385	11.423
	279	C	SER	703	16.944	68.360	13.073
	280	Ō	SER	703	15.874	68.265	13.654
	281	CB	SER	703	16.690	69.307	10.728
15	282	OG	SER	703	17.300	68.126	10.230
	283	HG	SER	703	18.260	68.280	10.219
	284	N	LEU	7.04	17.917	67.301	13.105
	285	CA	LEU	704	17.740	65.962	
	286	HN	LEU	704	18.682	67.368	13.703
20	287	C	LEU	704			
20	288	ő	LEU	704	17.494 16.800	66.130	15.217
	289	СВ	LEU	704	18.981	65.338	15.832
						65.050	13.574
	290 291	CG	LEU	704	18.981	63.995	12.452
		CD1		704	18.888	64.522	11.006
25	292	CD2	LEU	704	20.249	63.146	12.628
	293	N	ASN	705	18.197	67.197	15.831
	294	CA	ASN	705	18.013	67.600	17.218
	295	HN	ASN	705	18.768	67.838	15.279
	296	C	ASN	705	16.526	68.043	17.385
30	297	0	ASN	705	15.910	67.607	18.336
-	298	CB	ASN	705	18.960	68.709	17.715
	299	CG	ASN	705	20.404	68.204	17.811
	300	OD1	ASN	705	20.926	67.453	17.012
	301	ND2	ASN	705	21.132	68.648	18.913
	302	1HD2	ASN	705	21.930	68,109	19.248
35	303	2HD2	ASN	705	20.900	69.547	19.352
	304	N	GLU	706	15.954	68.965	16.451
	305	CA	GLU	706	14.614	69.578	16.579
	306	HN	GLU	706	16.550	69.275	15.686
	307	C	GLU	706	13.565	68.456	16.435
40	308	0	GLU	706	12.642	68.415	17.230
	309	СВ	GLU	706	14.253	70.731	15.602
	310	CG	GLU	706	15.227_	71.930	15.629
	311	CD	GLU	706	15.722	72.275	17.032
	312	OE1	GLU	706	15.056	72.441	18.043
45	313	OE2	GLU	706	17.073	72.369	17.008
	314	HE2	GLU	706	17.366	72.541	17.911
	315	N	LEU	707	13.710	67.522	15.388
	316	CA	LEU	707	12.797	66.378	15.245
	317	HN	LEU	707	14.627	67.512	14.939
50	318	C	LEU	707	12.929	65.492	16.540
50	319	0	LEU	707	11.940	65.187	17.173
	320	СВ	LEU	707	12.868	65.572	13.923
	321	CG	LEU	707	11.772	64.471	13.807
ļ	322	CD1	LEU	707	10.351	64.964	14.105

				1 707	11.741	63.819	12.412
	323	CD2	LEU	707	14.203	65.213	17.065
	324	N	GLY	708	14,409	64.586	18.375
	325	CA	GLY	708	15.077	65.405	16.550
	326	HN	GLY	708	13.607	65.286	19.523
	327	C	GLY	708	13.223	64.551	20.422
	328	0	GLY	708	13.368	66.711	19.424
	329	N	GLU	709		67.291	20.455
	330	CA	GLU	709	12.430	66.870	18.416
	331	HN	GLU	709	13.232	66.813	20.116
l	332	C	GLU	709	11.025	66.147	20.971
	333	0	GLU	709	10.470	68.724	20.989
	334	CB	GLU	709	12.087	69.883	20.147
	335	CG	GLU	709	11.457	70.500	20.944
	336	CD	GLU	709	10.300		20.833
5	337	OE1	GLU	709	9.121	70.204	21.860
•	338	OE2	GLU	709	10.727	71.422	22.412
		HE2	GLU	709	10.002	71.760	
	339	N N	ARG	710	10.411	67.381	18.930
	340	CA	ARG	710	9.015	67.165	18.680
	341	HN	ARG	710	11.030	67.728	18.226
0	342	C	ARG	710	8.576	65.706	18.863
	343	0	ARG	710	7.454	65.462	19.302
	344		ARG	710	8.675	67.723	17.311
	345	CB	ARG	710	9.112	69.185	17.218
	346	CG	ARG	710	8.843	69.723	15.849
25	347	CD	ARG	710	7.501	69.334	15.445
	348	NE NE	ARG	710	7.222	68.779	14.275
	349	CZ	ARG	710	8.172	68.495	13.340
	350	NH1	ARG	710	7.915	68.079	12.463
	351	1HH1	ARG	710	9.132	68.701	13.519
	352	2HH1		710	5.921	68.492	13.989
30	353	NH2	ARG	710	5.691	68.079	13.109
	354	1HH2	ARG	710	5.210	68.697	14.659
	355	2HH2	ARG	710	6.749	69.494	16.085
	356	HE	ARG	711	9,493	64.717	18.415
	357	N	GLN	711	9.092	63.326	18.536
35	358	CA	GLN	711	10.448	64.947	18.164
	359	HN	GLN		8.965	62.993	20.054
	360	C	GLN	711	7.965	62.385	20.362
	361	0	GLN	711	9.955	62.253	17.866
	362	CB	GLN	711	9.197	60,900	17.986
40	363	CG	GLN	711	9.873	59.707	17.350
40	364	CD	GLN	711	9.305	58.632	17.263
	365	OE1	GLN	711		59.917	16.945
	366	NE2	GLN	711	11.203	59.096	17.046
	367	1HE2	GLN	711		60.821	17.305
	368	2HE2	GLN	711	11.540	63.314	20.993
45	369	N	LEU	712	10.009	62.841	22.369
	370	CA	LEU	712	10.114	64.088	20.697
	371	HN	LEU	712	10.567		23.142
	371	C	LEU	712	8.899	63.352	24.139
	373	Ö	LEU	712	8.473	62.756	23.028
50		CB	LEU	712	11.437	63.327	24,566
00	374	CG	LEU	712	11.585	63.178	
	375	CD1	LEU	712	12.902	63.812	25.033
	376	CD2	LEU	712	10.409	63.797	25.339

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	378	N	VAL	713	8.336	64.448	22.642
	379	CA	VAL	713	7.145	65.049	23.218
	380	HN	VAL	713	8.748	64.876	21.837
5	381	C	VAL	713	5.974	64.150	22.835
	382	0	VAL	713	5.085	63.912	23.641
	383	CB	VAL	713	6.926	66.518	22.679
	384	CG1	VAL	713	7.690	67.647	23.424
	385	CG2	VAL	713	7.287	66.698	21.185
10	386	N	HIS	714	5.987	63.628	21.616
10	387	CA	HIS	714	4.923	62.724	21.198
	388	HN	HIS	714	6.728	63.855	20.983
	389	С	HIS	714	5.107	61.377	21.913
	390	0	HIS	714	4.164	60.573	22.006
	391	CB	HIS	714	4.961	62.530	19.673
15	392	CG	HIS	714	3.692	62.979	19.010
	393	ND1	HIS	714	2.568	62.188	18.780
	394	CE1	HIS	714	1.770	63.092	18.181
	395	NE2	HIS	714	2.251	64.351	17.998
	396	CD2	HIS	714	3.507	64.273	18.542
20	397	HE2	HIS	714	1.793	65.165	17.563
	398	N	VAL	715	6.328	61.159	22.422
	399	CA	VAL	715	6.725	59.930	23.143
	400	HN	VAL	715	7.016	61.876	22.307
	401	C	VAL	715	6.098	59.865	24.535
25	402	0	VAL	715	5.860	58.789	25.096
	403	CB	VAL	715	8.302	59.868	23.233
	404	CG1	VAL	715	8.899	58.734	24.112
	405	CG2	VAL	715	9.004	59.733	21.861
	406	N	VAL	716	5.853	61.042	25.092
30	407	CA	VAL	716	5.240	61.166	26.387
30	408	HN	VAL	716	6.102	61.873	24.594
	409	<u>C</u>	VAL	716	3.724	60.950	26.214
	410	0	VAL	716	3.127	60.223	27.013
	411	CB	VAL	716	5.570	62.543	26.984
	412	CG1	VAL	716	4.977	62.676	28.383
35	413	CG2	VAL	716	7.094	62.724	27.016
	414	N CA	LYS	717	3.089	61.546	25.190
	416	HN	LYS	717	3.583	61.294	25.014
	417	C	LYS	717	1.536	62.147	24.561
	418	0	LYS	717	0.566	59.802 59.132	24.651
40	419	СВ	LYS	717	0.962	62.138	25.009
	420	CG	LYS	717	0.856	63.702	24.059
	421	CD	LYS	717	-0.247	7. 4.5	
	422	CE	LYS	717	-0.072	64.447	23.158
	423	NZ	LYS	717	-0.903	65.223	20.724
45	424	HZ1	LYS	717	-0.504	66.172	20.745
	425	HZ2	LYS	717	-0.896	64.869	19.757
	426	HZ3	LYS	717	-1.844	65.248	21.062
	427	N	TRP	718	2.523	59.265	23.943
	428	CA	TRP	718	2.427	57.855	23.605
50	429	HN	TRP	718	3.307	59.813	23.652
	430	C	TRP	718	2.530	57.001	24.873
	431	ŏ	TRP	718	1.646	56.190	25.144
	432	CB	TRP	718	3.514	57.461	22.599
	L			1.7.7			

						1	100.450
	433	CG	TRP	718	3.692	55.982	22.458
	434	CD1	TRP	718	2.864	55.102	21.832
	435	NE1	TRP	718	3.387	53.831	21.906
_	436	CE2	TRP	718	4.576	53.879	22.585
5	437	CD2	TRP	718	4.777	55.221	22.976
	438	HE1	TRP	718	2.967	53.007	21.526
	439	CE3	TRP	718	5.938	55.547	23.688
	440	CZ3	TRP	718	6.813	54.537	24.037
	441	CH2	TRP	718	6.583	53.207	23.640
10	442	CZ2	TRP	718	5.458	52.858	22.937
	443	N	ALA	719	3.593	57.202	25.646
	444	CA	ALA	719	3.823	56.439	26.880
	445	HN	ALA	719	4.260	57.897	25.377
	446	C	ALA	719	2.603	56.421	27.797
15	447	Ö	ALA	719	2.173	55.353	28.240
	448	CB	ALA	719	5.039	57.001	27.626
	449	N	LYS	720	2.056	57.602	28.074
	450	CA	LYS	720	0.877	57.749	28.915
	451	HN	LYS	720	2.473	58.425	27.688
00	452	C	LYS	720	-0.310	56.892	28.435
20	453	l o	LYS	720	-1.087	56.394	29.246
	454	CB	LYS	720	0.486	59.228	28.972
	455	CG	LYS	720	1.490	60.104	29.739
	456	CD	LYS	720	1.324	61.613	29.489
	457	CE	LYS	720	-0.138	62.049	29.374
25	458	NZ	LYS	720	-0.392	63.445	29.911
	459	HZ1	LYS	720	0.444	64.028	29.762
	460	HZ2	LYS	720	-1.194	63.862	29.418
	461	HZ3	LYS	720	-0.593	63.395	30.889
	462	N	ALA	721	-0.447	56.695	27.130
30	463	CA	ALA	721	-1.556	55.887	26.617
	464	HN	ALA	721	0.210	57.099	26.494
	465	C	ALA	721	-1.321	54.381	26.706
	466	Ō	ALA	721	-2.236	53.584	26.468
	467	CB	ALA	721	-1.864	56.274	25.170
35	468	N	LEU	722	-0.098	53.982	27.036
33	469	CA	LEU	722	0.200	52.564	27.138
	470	HN	LEU	722	0.617	54.658	27.214
	471	C	LEU	722	-0.492	51.986	28.360
	472	0	LEU	722	-0.279	52.425	29.492
	473	CB	LEU	722	1.737	52.336	27.210
40	474	CG	LEU	722	2.576	52.603	25.931
	475	CD1	LEU	722	4.062	52.733	26.293
	476	CD2	LEU	722	2.397	51.510	24.865
	477	N	PRO	723	-1.364	51.004	28.133
	478	CA	PRO	723	-2.117	50.324	29.181
45	479	CD	PRO	723	-1.813	50.558	26.805
	480	C	PRO	723	-1.207	49.971	30.340
	481	10	PRO	723	-0.257	49.205	30.179
	482	СВ	PRO	723	-2.635	49.093	28.460
	483	CG	PRO	723	-2.975	49.632	27.153
50	484	N	GLY	724	-1.488	50.541	31.504
- -	485	CA	GLY	724	-0.686	50.263	32.676
	486	HN	GLY	724	-2.263	51.169	31.573
	487	C	GLY	724	0.523	51.152	32.913
	707						

	488	10	GLY	724	1.221	50.070	T 22 000
	489	O N	PHE	725	0.796	50.970	33.900
	490	CA	PHE	725	1.967		32.039
	491	HN	PHE	725		52.963	32.256
5	492	C	PHE	725	0.206	52.267	31.245
	492	0	PHE	725	1.713	54.100	33.242
					2.584	54.419	34.053
	494	CB	PHE	725	2.474	53.554	30.937
	495	CG	PHE	725	3.713	54.394	31.096
10	490	CD1 CE1	PHE	725	4.959	53.797	31.287
	497	CZ	PHE	725	6.098	54.575	31.517
	ļ	CE2	PHE	725	5.991	55.961	31.555
	499	CD2			4.751	56.569	31.359
	500		PHE	725	3.622	55.785	31.127
15	501	N	ARG	726	0.528	54.705	33.164
70	502	CA	ARG	726	0.150	55.833	34.029
	503	HN	ARG	726	-0.133	54.378	32.488
	504 505	C	ARG	726	0.050	55.468	35.498
			ARG	726 726	0.346	56.277	36.381
	506	CB	ARG			56.436	33.600
20	507	CD	ARG	726 726	-1.155	57.242	32.317
	508	NE	ARG	726	-2.138 -1.902	58.410	32.336
	509	CZ	ARG			59.315	33.460
	510		ARG	726	-0.717	59.828	33.797
	511	NH1 1HH1	ARG	726 726	0.438 1.279	59.673	33.109
25	512	2HH1	ARG ARG	726	0.452	60.106	33.442
	513					59.128	32.276
	514	NH2 1HH2	ARG ARG	726 726	-0.677 0.189	60.598	34.918
	516	2HH2	ARG	726	-1.510	61.015	35.197 35.449
	517	HE	ARG	726	-2.690	59.569	34.020
30		N	ASN	727	-0.380	54.242	35.752
	518 519	CA	ASN	727	-0.544	53.777	37.110
	520	HN	ASN	727	-0.595	53.628	34.993
	521	C	ASN	727	0.765	53.516	37.822
	522	ő	ASN	727	0.778	53.044	38.950
35	523	CB	ASN	727	-1.436	52.541	37.106
	524	CG	ASN	727	-2.805	52.837	36.517
	525	OD1	ASN	727	-3.261	52.166	35.586
	526	ND2	ASN	727	-3.556	53.863	37.133
	527	1HD2	ASN	727	-4.491	54.048	36.802
40	528	2HD2	ASN	727	-3.175	54.391	37.903
40	529	N	LEU	728	1.882	53.801	37.176
	530	CA	LEU	728	3.131	53.615	37.881
	531	HN	LEU	728	1.864	54.134	36.233
	532	C	LEU	728	3.372	54.966	38.511
	533	0	LEU	728	2.730	55.960	38.163
45	534	CB	LEU	728	4.285	53.273	36.943
	535	CG	LEU	728	4.343	51.909	36.258
	536	CD1	LEU	728	4.962	52.123	34.901
	537	CD2	LEU	728	5.151	50.896	37.058
	538	N	HIS	729	4.308	55.000	39.441
50	539	CA	HIS	729	4.627	56.232	40.110
	540	HN	HIS	729	4.799	54.162	39.683
	541	C	HIS	729	5.054	57.283	39.094
	542	o o	HIS	729	5.887	57.008	38.239
				· -	1	1	55,257

					5.740	55.981	41.108
	543	CB	HIS	729	5.742	57.008	42.187
	544	CG	HIS	729	5.813	58.249	42.000
	545	ND1	HIS	729	6.381	58.959	43.105
_	546	CE1	HIS	729	6.253	58.221	44.003
5	547	NE2	HIS	729	5.620	56.999	43,455
	548	CD2	HIS	729	5.333	58.510	44.932
	549	HE2	HIS	729	5.389	58.476	39.192
	550	N	VAL	730	4.481	59.579	38.294
	551	CA	VAL	730	4.812		39.907
10	552	HN	VAL	730	3.798	58.625	38.306
	553	C	VAL	730	6.313	59.875	37.559
	554	0	VAL	730	6.791	60.726	38.725
	555	CB	VAL	730	3.984	60.854	37.614
	556	CG1	VAL	730	3.709	61.905	39.330
15	557	CG2	VAL	730	2.598	60.527	39.330
,,	558	N	ASP	731	7.044	59.181	39.173
	559	CA	ASP	731	8.487	59.358	
	560	HN	ASP	731	6.589	58.516	39.764
	561	C	ASP	731	9.214	58.319	38.448
	562	0	ASP	731	10.326	58.562	37.974 40.757
20	563	CB	ASP	731	8.915	59.232	41.382
	564	CG	ASP	731	9.276	60.572	41.021
	565	OD1	ASP	731	8.645	61.590	42.245
	566	OD2	ASP	731	10.184	60.599	42.548
	567	HD2	ASP	731	10.306	61.486	38.283
25	568	N	ASP	732	8.597	57.155	37.469
	569	CA	ASP	732	9.174	56.089	38.728
	570	HN	ASP	732	7.714	57.004	36.039
	571	C	ASP	732	8.833	56.439	35.127
	572	O	ASP	732	9.643	56.265	37.817
30	573	CB	ASP	732	8.558	54.740	39.271
	574	CG	ASP	732	8.720	54.394	39.871
	575	OD1	ASP	732	9.723	54.839	39.809
	576	OD2	ASP	732	7.853	53.670	40.717
	577	HD2	ASP	732	8.076	53.532	35.872
35	578	N	GLN	733	7.603	56.922	34.588
33	579	CA	GLN	733	7.091	57.359	36.671
	580	HN	GLN	733	7.005	56.988	34.013
	581	С	GLN	733	8.131	58.302 58.385	32.802
	582	0	GLN	733	8.317	58.103	34.767
	583	CB	GLN	733	5.756	57.204	34.669
40	584	CG	GLN	733	4.525	57.950	34.838
	585	CD	GLN	733	3.203		34.083
	586	OE1	GLN	733	2.880	58.872	36.072
	587	NE2	GLN	733	2.575	57.795	36.220
	588	1HE2	GLN	733	1.680		36.695
45	589	2HE2	GLN	733	2.839	57.042 59.003	34.899
	590	N	MET	734	8.829		34.473
	591	CA	MET	734	9.852	59.943	35.875
	592	HN	MET	734	8.647	58.882	34.340
	593	C	MET	734	11.220	59.333 59.902	33.666
50	594	0	MET	734	12.079		35.433
	595	СВ	MET	734	9.951	61.118	34.998
	596	CG	MET	734	9.164	62.319 63.746	35.952
			MET				

	598	CE	MET	734	8.455	63.667	37.244
	599	N	ALA	735	11.455	58.199	34.992
	600	CA	ALA	735	12.771	57.598	34.869
5	601	HN	ALA	735	10.745	57.772	35.552
J	602	C	ALA	735	12.803	56.821	33.566
	603	0	ALA	735	13.748	56.931	32.777
	604	CB	ALA	735	13.083	56.721	36.094
	605	N	VAL	736	11.744	56.053	33.341
	606	CA	VAL	736	11.638	55.250	32.143
10	607	HN	VAL	736	11.004	56.030	34.013
	608	C	VAL	736	11.833	56.098	30.863
	609	ō	VAL	736	12.645	55.741	30.008
	610	CB	VAL	736	10.251	54.493	32.110
	611	CG1	VAL	736	10.007	53.452	33.238
15	612	CG2	VAL	736	9.022	55.434	32.150
	613	N	ILE	737	11.142	57.233	30.745
	614	CA	ILE	737	11.297	58.090	29.570
	615	HN	ILE	737	10.509	57.502	31.470
	616	C	ILE	737	12.635	58.751	29.471
20	617	ō	ILE	737	13.027	59.243	28.416
20	618	CB	ILE	737	10.118	59.146	29.580
	619	CG1	ILE	737	8.725	58.571	29.167
	620	CG2	ILE	737	10.413	60.390	28.685
	621	CD1	ILE	737	7.530	59.536	29.307
	622	N	GLN	738	13.337	58.801	30.584
25	623	CA	GLN	738	14.626	59.444	30.567
	624	HN	GLN	738	12.981	58.399	31.427
	625	C	GLN	738	15.719	58.459	30.267
	626	0	GLN	738	16.740	58.801	29.672
	627	СВ	GLN	738	14.864	60.136	31.890
30	628	CG	GLN	738	14.349	61.550	31.885
	629	CD	GLN	738	14.079	62.051	33.272
	630	OE1	GLN	738	14.762	61.667	34.231
	631	NE2	GLN	738	12.982	62.863	33.554
	632	1HE2	GLN	738	12.838	63.166	34.506
<i>35</i>	633	2HE2	GLN	738	12.311	63.088	32.846
	634	N	TYR	739	15.499	57.221	30.677
	635	CA	TYR	739	16.473	56.184	30.422
	636	HN	TYR	739	14.654	57.002	31.165
	637	C	TYR	739	16.332	55.637	29.012
40	638	0	TYR	739	17.282	55.096	28.463
	639	CB	TYR	739	16.270	55.032	31.377
	640	CG	TYR	739	16.890	55.184	32.734
	641	CD1	TYR	739	16.859	56.394	33.424
	642	CE1	TYR	739	17.360	56.485	34.721
45	643	CZ	TYR	739	17.890	55.346	35.321
45	644	OH	TYR	739	18.388	55.465	36.601
	645	HH	TYR	739	19.129	54.856	36.698
	646	CE2	TYR	739	17.929	54.150	34.650
	647	CD2	TYR	739	17.437	54.076	33.369
	648	N	SER	740	15.157	55.784	28.406
50	649	CA	SER	740	14.983	55.203	27.088
	650	HN	SER	740	14.411	56.282	28.849
	651	С	SER	740	14.524	56.053	25.911
	652	0	SER	740	14.159	55.506	24.878

				1 740	14.066	53.978	27.206
	653	CB	SER	740	14.066	54.286	27.635
	654	OG	SER	740		53.459	27.955
	655	HG	SER	740	12.366	57.465	26.099
5	656	N	TRP	741	14.519	58.264	24.924
3	657	CA	TRP	741		57.891	27.017
	658	HN	TRP	741	14.497	57.774	23.764
	659	C	TRP	741	15.078	57.416	22.734
	660	0	TRP	741	14.533	59.797	25.069
	661	CB	TRP	741	14.133	60.335	24.953
10	662	CG	TRP	741	15.531 16.564	60.105	25.810
	663	CD1	TRP	741	17.782	60.643	25.364
	664	NE1	TRP	741	17.782	61.323	24.191
	665	CE2	TRP	741	16.085	61.156	23.847
	666	CD2	TRP	741		60.585	25.806
15	667	HE1	TRP	741	18.695	61.689	22.656
	668	CE3	TRP	741	15.531 16.425	62.386	21.792
	669	CZ3	TRP	741	17.785	62.601	22.177
	670	CH2	TRP	741	18.294	62.098	23.404
	671	CZ2	TRP	741	16.511	57.700	23.949
20	672	N	MET	742	17.460	57.375	22.864
	673	CA	MET	742	16.918	58.325	24.642
	674	HN	MET	742	17.074	56.103	22.055
	675	C	MET	742	17.258	56.121	20.863
	676	0	MET	742	18.909	57.247	23.380
05	677	CB	MET	742	19.989	56.973	22.306
25	678	CG	MET	742	20.191	58.185	20.942
	679	SD	MET	742	19.820	59.767	21.764
	680	CE	MET	742	16.525	54.998	22.724
	681	N	GLY	743	16.219	53.640	22.332
	682	CA	GLY	743	16.635	55.206	23.696
30	683	HN	GLY	743	14.879	53.727	21.599
	684	C	GLY	743	14.703	53.142	20.535
	685	0	GLY	743	13.800	54.496	22.119
	686	N	LEU	744	12.465	54.599	21.489
	687	CA	LEU	744	13.971	55.061	22.943
35	688	HN	LEU	744	12.576	55.382	20.155
	689	C	LEU		12.106	54.862	19.151
	690	O	LEU	744	11.443	55.298	22,402
	691	CB	LEU	744	11.169	54.461	23.672
	692	CG	LEU	744	10.761	55.334	24.862
40	693	CD1	LEU	744	10.137	53.369	23.354
	694	CD2	LEU	745	13.215	56.673	20.210
	695	N	MET	745	13.794	57.402	19.077
	696	CA	MET		13.550	56.997	21.124
	697	HN	MET	745	14.432	56.310	18.190
	698	C	MET	745	13.896	55.988	17.139
45	699		MET	745	14.920	58.444	19.353
	700	СВ	MET	745	14.584	59.758	20.055
	701	CG	MET	745	13.271	60.680	19.205
	702	SD	MET	745	11.881	60.003	20.165
	703	CE	MET	745	15.687	55.784	18.607
50	704	N	VAL	746	16.555	55.323	17.526
	705	CA	VAL	746	16.146	56.021	19.498
	706	HN	VAL	746	15.868	54.054	16.896
	707	C	VAL	746	13.000		

	708	0	VAL	746	15.708	54.010	15.695
	709	CB	VAL	746	18.020	55.201	18.011
	710	CG1	VAL	746	18.940	54.565	16.974
5	711	CG2	VAL	746	18.652	56.574	18.389
	712	N	PHE	747	15.451	52.984	17.734
	713	CA	PHE	747	14.928	51.646	17.382
	714	HN	PHE	747	15.517	53.130	18.736
	715	С	PHE	747	14.070	51.788	16.122
	716	0	PHE	747	14.382	51.106	15.168
10	717	CB	PHE	747	14.101	51.009	18.516
	718	CG	PHE	747	13.615	49.602	18.246
	719	CD1	PHE	747	14.545	48.503	18.348
	720	CE1	PHE	747	14.085	47.149	18.314
	721	CZ	PHE	747	12.691	46.873	18.137
15	722	CE2	PHE	747	11.744	47.952	18.031
	723	CD2	PHE	747	12.206	49.310	18.105
	724	N	ALA	748	12.988	52.734	16.197
	725	CA	ALA	748	11.929	53.166	15.258
	726	HN	ALA	748	12.980	53.238	17.081
20	727	С	ALA	748	12.452	53.970	14.009
	728	0	ALA	748	11.827	53.896	12.962
	729	CB	ALA	748	10.866	54.042	15.955
	730	N_	MET	749	13.577	54.829	14.173
	731	CA	MET	749	14.460	55.045	13.006
25	732	HN	MET	749	14.041	54.673	15.058
	733	C	MET	749	14.556	53.699	12.250
	734	0	MET	749	14.153	53.723	11.093
	735	СВ	MET	749	15.938	55.490	13.154
]	736	CG	MET	749	16.676	55.496	11.809
30	737	SD	MET	749	15.908	56.663	10.662
, j	738	CE	MET	749	16.406	58.131	11.579
ļ	739	N	GLY	750	15.125	52.555	12.918
ŀ	740	CA	GLY	750	15.233	51.315	12.206
}	741	HN	GLY	750	15.461	52.500	13.881
- l	742	C	GLY	750	13.913	51.116	11.449
35	743 744	0	GLY	750	13.991	50.745	10.291
ŀ	745	N CA	TRP	751	12.676	51.353	12.134
ŀ	746	HN	TRP	751	11.460	50.940	11.462
ŀ	747	C	TRP TRP	751 751	12.636 11.085	51.565 51.734	13.110
 	748	0	TRP	751	10.868	51.754	10.187
40 .	749	CB	TRP	751	10.334	50.995	9.134 12.476
ŀ	750	CG	TRP	751	9.056	50.606	11.930
t	751	CD1	TRP	751	8.036	51.435	11.565
ŀ	752	NE1	TRP	751	6.971	50.695	11.112
f	753	CE2	TRP	751	7.298	49.364	11.173
45	754	CD2	TRP	751	8.609	49.275	11.699
f	755	HE1	TRP	751	6.100	51.066	10.791
<u> </u>	756	CE3	TRP	751	9.194	48.008	11.852
1	757	CZ3	TRP	751	8.448	46.879	11.513
}	758	CH2	TRP	751	7.139	47.004	11.001
	759	CZ2	TRP	751	6.547	48.234	10.834
	760	N	ARG	752	10.828	53.134	10.236
	761	CA	ARG	752	10.481	53.916	9.023
	762	HN	ARG	752	11.064	53.682	11.044
L							

				1 = = =	11.467	53.500	7.878
	763	C	ARG	752	11.091	53.384	6.727
	764	0	ARG	752		55.465	9.244
	765	CB	ARG	752	10.508	55.992	9.981
	766	CG	ARG	752	9.234	57.491	10.410
5	767	CD	ARG	752	9.081	58.276	10.932
	768	NE	ARG	752	10.218		11.925
	769	CZ	ARG	752	11.005	57.728	12.600
	770	NH1	ARG	752	10.676	56.604	13.312
	771	1HH1	ARG	752	11.297	56.253	12.400
10	772	2HH1	ARG	752	9.810	56.136	12.333
	773	NH2	ARG	752	12.193	58.225	13.083
	774	1HH2	ARG	752	12.725	57.805	11.877
	775	2HH2	ARG	752	12.508	59.058	
	776	HE	ARG	752	10.438	59.158	10.490
15	777	N	SER	753	12.832	53.352	8.234
15	778	CA	SER	753	13.858	53.113	7.230
	779	HN	SER	753	13.094	53.305	9.198
	780	C	SER	753	13.671	51.814	6.491
	781	ő	SER	753	13.787	51.732	5.269
	782	CB	SER	753	15.220	53.082	7.901
20	783	OG	SER	753	15.598	54.311	8.521
	784	HG	SER	753	16.377	54.104	9.055
		N	PHE	754	13.406	50.789	7.273
	785	CA	PHE	754	13.217	49.465	6.764
	786	HN	PHE	754	13.334	50.941	8.259
25	787	C	PHE	754	11.985	49.344	5.896
	788		PHE	754	11.951	48.557	4.958
	789	CB	PHE	754	13.080	48.488	7.971
	790	CG	PHE	754	12.144	47.285	7.775
	791	CDI	PHE	754	12.430	46.341	6.782
00	792	CEI	PHE	754	11.651	45.196	6.657
30	793	CZ	PHE	754	10.592	44.977	7.535
	794	CE2	PHE	754	10.309	45.908	8.534
	795	CD2	PHE	754	11.081	47.060	8.653
	796	N N	THR	755	10.970	50.138	6.171
	797	CA	THR	755	9.755	49.992	5.397
35	798	HN	THR	755	11.036	50.823	6.897
	799	$\frac{1}{C}$	THR	755	9.638	50.815	4.144
	800	$-\frac{10}{0}$	THR	755	8.932	50.439	3.209
	801	CB	THR	755	8.553	50.275	6.360
	802	OG1	THR	755	8.606	49.415	7.490
40	803	HG1	THR	755	7.888	49.688	8.068
	804	CG2	THR	755	7.141	50.057	5.774
	805	N N	ASN	756	10.347	51.932	4.147
	806		ASN	756	10.323	52.902	3.073
	807	CA HN	ASN	756	10.933	52.116	4.936
45	808	C	ASN	756	11.405	52.732	2.021
45	809		ASN	756	11.350	53.354	0.962
	810	O CB	ASN	756	10.413	54.308	3.734
	811	CG	ASN	756	9.814	55.482	2.952
	812		ASN	756	10.054	56.646	3.238
	813	OD1	ASN	756	9.001	55.229	1.962
50	814	ND2	ASN	756	8.541	56.073	1.610
	815	1HD2		756	8.750	54.253	1.807
	816	2HD2	VAL	757	12.404	51.906	2.311
	817	N	VAL				

	818	CA	VAL	757	13.501	51.711	1.378
	819	HN	VAL	757	12.401	51.413	3.181
	820	С	VAL	757	14.375	50.537	1.784
5	821	0	VAL	757	15.610	50.602	1.730
3	822	СВ	VAL	757	14.355	53.036	1.271
	823	CG1	VAL	757	14.528	53.853	2.581
	824	CG2	VAL	757	15.790	52.817	0.734
	825	N	ASN	758	13.702	49.482	2.233
	826	CA	ASN	758	14.314	48.218	2.620
10	827	HN	ASN	758	12.708	49.561	2.310
	828	C	ASN	758	15.612	48.239	3.458
	829	0	ASN	758	16.410	47.298	3.378
	830	СВ	ASN	758	14.517	47.400	1.311
	831	CG	ASN	758	13.894	47.971	0.033
15	832	OD1	ASN	758	14.553	48.581	-0.797
	833	ND2	ASN	758	12.612	47.821	-0.165
	834	1HD2	ASN	758	12.273	48.366	-0.962
	835	2HD2	ASN	758	12.076	47.388	0.588
	836	N	SER	759	15.798	49.283	4.266
	837	CA	SER	759	16.988	49.450	5.119
20	838	HN	SER	759	15.092	49.990	4.295
	839	C	SER	759	18.206	49.933	4.318
	840	0	SER	759	19.349	49.548	4.604
	841	СВ	SER	759	17.291	48.133	5.878
	842	OG	SER	759	17.771	47.094	5.019
25	843	HG	SER	759	17.071	46.891	4.393
	844	N	ARG	760	17.949	50.786	3.330
	845	CA	ARG	760	18.985	51.346	2.466
	846	HN	ARG	760	16.999	51.058	3.171
	847	С	ARG	760	19.341	52.784	2.844
30	848	0	ARG	760	20.516	53.158	2.902
	849	CB	ARG	760	18.480	51.254	1.000
	850	CG	ARG	760	18.391	49.814	0.428
	851	CD	ARG	760	19.600	49.453	-0.445
	852	NE	ARG	760	19.406	48.074	-0.963
35	853	CZ	ARG	760	20.247	47.425	-1.757
	854	NH1	ARG	760	21.372	47.913	-2.190
	855	1HH1	ARG	760	21.553	48.860	-1.855
	856	2HH1	ARG	760	21.933	47.318	-2.796
	857	NH2	ARG	760	19.923	46.235	-2.118
40	858	1HH2	ARG	760	19.025	45.948	-1.724
	859	2HH2	ARG	760	20.563	45.732	-2.730
	860	HE	ARG	760	18.572	47.596	-0.690
	861	N	MET	761	18.293	53.567	3.089
	862	CA	MET	761	18.370	54.983	3.462
45	863	HN	MET	761	17.384	53.158	3.015
45	864	C	MET	761	17.939	55.180	4.938
	865	0	MET	761	17.228	54.341	5.487
	866	CB	MET	761	17.443	55.779	2.503
	867	CG	MET	761	18.096	56.281	1.198
	868	SD	MET	761	19.267	55.055	0.591
50	869	CE	MET	761	20.100	56.069	-0.638
	870	N	LEU	762	18.646	56.133	5.719
	871	CA	LEU	762	18.008	56.502	6.977
	872	HN	LEU	762	19.291	56.801	5.349

	873	C	LEU	762	16.874	57.403	6.518
	874	0	LEU	762	17.022	58.280	5.682
	875	СВ	LEU	762	18.807	57.249	8.045
	876	CG	LEU	762	19.912	56.413	8.714
5	877	CD1	LEU	762	20.320	57.178	9.974
	878	CD2	LEU	762	19.487	54.969	9.048
		N N	TYR	763	15.670	57.231	7.238
	879				14.513	58.088	6.999
	880	CA	TYR	763 763		56.388	7.766
10	881	HN C	TYR		15.561	58.809	8.186
,,,	882		TYR	763	13.906		
	883	0	TYR	763	12.846	58.426	8.682
	884	CB	TYR	763	13.390	57.253	6.318
	885	CG	TYR	763	13.796	56.416	5.099
	886	CD1	TYR	763	13.972	57.016	3.849
15	887	CD2	TYR	763	14.003	55.040	5.240
	888	CE1	TYR	763	14.356	56.247	2.753
	889	CE2	TYR	763	14.386	54.274	4.144
	890	CZ	TYR	763	14.563	54.878	2.901
	891	OH	TYR	763	14.942	54.127	1.825
20	892	HH	TYR	763	15.040	53.217	2.109
	893	N	PHE	764	14.785	59.734	8.835
	894	CA	PHE	764	14.442	60.479	10.083
	895	HN	PHE	764	15.772	59.742	8.578
	896	С	PHE	764	12.936	60.840	10.052
	897	0	PHE	764	12.200	60.760	11.025
25	898	CB	PHE	764	15.272	61.780	10.272
	899	CG	PHE	764	16.672	61.362	10.642
	900	CD1	PHE	764	17.646	60.998	9.635
	901	CE1	PHE	764	18.897	60.394	10.028
	902	CZ	PHE	764	19.179	60.161	11.424
30	903	CE2	PHE	764	18.228	60.565	12.429
	904	CD2	PHE	764	16.976	61.155	12.037
	905	N	ALA	765	12.573	61.312	8.769
	906	CA	ALA	765	11.243	61.719	8.333
	907	HN	ALA	765	13.221	61.061	8.011
35	908	С	ALA	765	11.117	61.299	6.822
35	909	o	ALA	765	12.084	61.094	6.089
	910	CB	ALA	765	11.042	63.241	8.506
	911	N	PRO	766	9.756	61.236	6.359
	912	CA	PRO	766	9.578	61.215	4.895
	913	CD	PRO	766	8.902	60.205	6.984
40	914	Ċ	PRO	766	9.892	62.462	4.031
	915	ō	PRO	766	10.011	62.338	2.812
	916	CB	PRO	766	8.151	60.692	4.748
	917	CG	PRO	766	8.154	59.579	5.772
	918	N	ASP	767	10.023	63.635	4.659
45	919	CÁ	ASP	767	10.402	64.883	3.987
			ASP	767	9.853	63.663	5.644
	920	HN C		767	11.908	65.110	4.248
	921		ASP				
	922	0	ASP	767	12.416	66.219	4.071
50	923	CB	ASP	767	9.546	66.079	4.513
50	924	CG	ASP	767	10.320	67.074	5.442
	925	OD1	ASP	767	11.386	66.743	6.007
	926	OD2	ASP	767	9.830	68.214	5.632
	927	HD2	ASP	767	10.394	68.708	6.207

	928	N	LEU	768	12.622	64.067	4.686
	929	CA	LEU	768	14.066	64.183	4.963
	930	HN	LEU	768	12.166	63.188	4.829
5	931	C	LEU	768	14.766	62.853	5.221
3	932	0	LEU	768	14.844	62.374	6.362
	933	CB	LEU	768	14.356	65.126	6.149
	934	CG	LEU	768	15.833	65.518	6.400
	935	CD1	LEU	768	15.922	66.481	7.567
	936	CD2	LEU	768	16.695	64.304	6.705
10	937	N	VAL	769	15.303	62.307	4.134
	938	CA	VAL	769	16.033	61.049	4.107
	939	HN	VAL	769	15.198	62.798	3.270
	940	C	VAL	769	17.515	61.321	3.918
	941	0	VAL	769	17.910	62.236	3.195
15	942	СВ	VAL	769	15.470	60.162	2.927
	943	CG1	VAL	769	13.936	59.910	2.925
	944	CG2	VAL	769	15.794	60.713	1.518
	945	N	PHE	770	18.501	60.585	4.675
	946	CA	PHE	770	19.970	60.640	4.547
20	947	HN	PHE	770	18.186	59.784	5.216
	948	С	PHE	770	20.261	59.601	3.429
	949	0	PHE	770	20.554	58.427	3.649
	950	CB	PHE	770	20.836	60.221	5.758
	951	CG	PHE	770	21.233	61.246	6.795
25	952	CD1	PHE	770	22.499	61.037	7.466
25	953	CE1	PHE	770	22.940	61.897	8.521
	954	CZ	PHE	770	22.151	63.037	8.872
	955	CE2	PHE	770	20.900	63.270	8.203
	956	CD2	PHE	770	20.416	62.367	7.193
	957	N	ASN	771	20.172	60.171	2.136
30	958	CA	ASN	771	20.583	59.440	0.952
	959	HN	ASN	771	19.831	61.101	1.999
ļ	960	C	ASN	771	22.104	59.406	0.993
	961	0	ASN	771	22.740	59.804	1.982
	962	СВ	ASN	771	20.157	60.228	-0.266
35	963	CG	ASN	771	20.462	61.686	-0.088
ļ	964	OD1	ASN	771	21.245	62.041	0.802
	965	ND2	ASN	771	19.834	62.588	-0.969
	966	1HD2	ASN	771	20.070	63.569	-0.935
1	967	2HD2	ASN	771	19.233	62.251	-1.704
40	968	N	GLU	772	22.663	58.979	-0.126
-	969	CA	GLU	772	24.082	58.822	-0.276
-	970	HN	GLU	772	22.072	58.756	-0.901
}	971	C	GLU	772	24.616	60.138	-0.412
	972	O	GLU	772	25.341	60.550	0.437
45	973	CB	GLU	772	24.391	58.080	-1.511
	974 975	CG CD	GLU GLU	772	25.666	57.375	-1.442
F	976	OE1	GLU	772 772	26.030 25.501	56.969	-2.820
}-	977	OE2	GLU	772	26.811	55.939	-3.297 -3.446
	978	HE2	GLU	772	26.969	57.715 57.356	
	979	N N	TYR	773	24.351	60.774	-4.306 1.522
-	980	CA	TYR	773	24.793	62.102	-1.523 -1.541
	981	HN	TYR	773	23.873	60.349	-2.292
	982	C	TYR	773	25.042	62.437	-0.030
Ĺ	1	_ 			25.072	JL.731	-0.030

_				770	26 110	62.188	0.452
<u>[</u>	983	0	TYR	773	26.119	62.947	-2.027
	984	CB	TYR	773	23.579		-2.587
[985	CG	TYR	773	23.890	64.339	-2.482
_ [986	CD1	TYR	773	22.957	65.375	
5	987	CD2	TYR	773	25.123	64.581	-3.202 -2.982
	988	CE1	TYR	773	23.258	66.640	
	989	CE2	TYR	773	25.421	65.845	-3.701
Ī	990	CZ	TYR	773	24.488	66.874	-3.590
Ī	991	OH	TYR	773	24.780	68.116	-4.077
10	992	HH	TYR	773	25.661	68.094	-4.455
Ī	993	N	ARG	774	24.048	62.861	0.759
Ì	994	CA	ARG	774	24.284	63.236	2.187
Ī	995	HN	ARG	774	23.123	62.929	0.385
Ī	996	C	ARG	774	25.212	62.467	3.112
15	997	0	ARG	774	26.035	63.039	3.822
ļ	998	CB	ARG	774	22.962	63.385	2.896
	999	CG	ARG	774	22.235	64.527	2.333
	1000	CD	ARG	774	20.817	64.471	2.706
ļ	1001	NE	ARG	774	20.155	65.689	2.277
20	1002	CZ	ARG	774	18.843	65.836	2.288
20	1003	NH1	ARG	774	17.944	64.906	2.689
	1004	1HH1	ARG	774	16.968	65.106	2.663
ļ	1005	2HH1	ARG	774	18.268	64.016	3.011
	1006	NH2	ARG	774	18.393	67.046	1.851
	1007	1HH2	ARG	774	17.416	67.245	1.824
25	1008	2HH2	ARG	774	19.071	67.726	1.561
	1009	HE	ARG	774	20.718	66.451	1.959
	1010	N	MET	775	24.911	61.105	3.376
	1011	CA	MET	775	25.779	60.583	4.448
	1012	HN	MET	775	24.830	60.517	2.549
30	1013	С	MET	775	27.305	60.651	4.013
	1014	0	MET	775	28.147	60.293	4.826
	1015	CB	MET	775	25.318	59.204	4.870
	1016	CG	MET	775	25.815	58.802	6.270 7.351
	1017	SD	MET	775	24.477	58.163	8.481
35	1018	CE	MET	775	25.415	57.094	2.696
	1019	N	HIS	776	27.640	61.215	2.344
	1020	CA	HIS	776	29.031	61.282	2.238
	1021	HN	HIS	776	26.964	61.792	3.101
	1022	С	HIS	776	29.746	62.384	
40	1023	0	HIS	776	30.975	62.481 61.523	3.039 0.828
40	1024	CB	HIS	776	29.130		0.296
	1025	CG	HIS	776	27.956	62.293	-0.172
	1026	ND1	HIS	776	26.766		-0.172
	1027	CE1	HIS	776	26.107	62.869	-0.309
	1028	NE2	HIS	776	26.735	64.060 63.678	0.215
45	1029	CD2	HIS	776	27.943		-0.501
	1030	HE2	HIS	776	26.395	65.013 63.122	3.884
	1031	N	LYS	777	28.943	64.309	4.668
	1032	CA	LYS	777	29.320		3.941
	1033	HN	LYS	777	27.987	62.835 64.269	5.882
50	1034	<u>C</u>	LYS	777	30.189 29.801	63.817	6.953
	1035	0	LYS	777	<u> </u>	65.109	4.943
	1036	CB	LYS	777	28.017	65.533	3.654
	1037	CG	LYS				I 3.0.34

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	1038	CD	LYS	777	27.913	66.694	2.890
	1039	CE	LYS	777	27.075	67.006	1.644
	1040	NZ	LYS	777	27.690	68.123	0.906
5	1041	HZ2	LYS	777	28.714	68.062	0.944
	1042	HZ1	LYS	777	27.439	68.097	-0.088
	1043	HZ3	LYS	777	27.389	68.991	1.303
	1044	N	SER	778	31.289	64.992	5.774
	1045	HN	SER	778	31.459	65.526	4.910
	1046	CA	SER	778	32.264	65.049	6.850
10	1047	С	SER	778	32.066	64.179	8.078
	1048	0	SER	778	32.971	63.485	8.496
	1049	CB	SER	778	32.289	66.554	7.216
	1050	OG	SER	778	32.013	67.404	6.097
	1051	HG	SER	778	32.714	67.269	5.454
15	1052	N	ARG	779	31.042	64.493	9.064
	1053	CA	ARG	779	31.023	63.897	10.434
	1054	HN	ARG	779	30.246	65.047	8.755
	1055	С	ARG	779	29.590	63.361	10.800
	1056	0	ARG	779	28.841	63.946	11.571
20	1057	CB	ARG	779	31.557	64.839	11.534
	1058	CG	ARG	779	33.073	65.106	11.405
	1059	CD	ARG	779	33.744	65.498	12.728
	1060	NE	ARG	779	33.977	64.443	13.758
	1061	CZ	ARG	779	34.629	64.605	14.960
25	1062	NH1	ARG	779	35.116	65.817	15.379
	1063	1HH1	ARG	779	34.981	66.593	14.763
	1064	2HH1	ARG	779	35.591	65.928	16.255
	1065	NH2	ARG	779	34.793	63.521	15.765
	1066	1HH2	ARG	779	34.408	62.676	15.376
30	1067	2HH2	ARG	779	35.262	63.562	16.652
30	1068	HE	ARG	779	33.656	63.520	13.542
	1069	N	MET	780	29.272	62.128	10.169
	1070 1071	CA HN	MET MET	780 780	27.864 29.848	61.726	9.970
	1072	C	MET	780		61.854	9.387
	1072	0	MET	780	27.908	59.464	9.574
35	1073	СВ	MET	780	27.041	62.330	8.814
	1075	CG	MET	780	26.567	63.776	8.902
	1076	SD	MET	780	25.378	64.019	7.543
	1077	CE	MET	780	24.600	65.573	8.095
	1078	N	TYR	781	28.649	59.894	8.359
40	1079	CA	TYR	781	28.868	58.454	8.021
	1080	HN	TYR	781	29.099	60.596	7.760
	1081	C	TYR	781	28.899	57.569	9.335
	1082	ō	TYR	781	28.171	56.608	9.513
	1083	CB	TYR	781	30.119	58.165	7.148
45	1084	CG	TYR	781	30.298	56.667	7.018
	1085	CD1	TYR	781	29.562	55.920	6.025
	1086	CE1	TYR	781	29.644	54.479	6.002
	1087	CZ	TYR	781	30.477	53.764	6.943
	1088	OH	TYR	781	30.565	52.391	6.924
50	1089	НН	TYR	781	29.809	52.055	6.426
	1090	CE2	TYR	781	31.236	54.523	7.898
	1091	CD2	TYR	781	31.157	55.955	7.937
	1092	N	SER	782	29.890	58.001	10.221
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				1 792	30.342	57.544	11.482
1	1093	CA	SER	782	30.414	58.669	9.692
1	1094	HN	SER	782	29.351	57.385	12.601
	1095	C	SER		29.510	56.535	13.475
	1096	0	SER	782 782	31.546	58.422	11.907
	1097	CB	SER		32.608	57.663	12.495
	1098	OG	SER	782 782	32,266	57.264	13.300
	1099	HG	SER	783	28.232	58.202	12.588
	1100	N	GLN		27.423	58.261	13.809
	1101	CA	GLN	783	28.195	58.944	11.888
	1102	HN	GLN	783	26.191	57.347	13.631
	1103	C	GLN	783	25.946	56.384	14.349
	1104	0	GLN	783	27.169	59.738	14.096
	1105	СВ	GLN	783	28.525	60.430	14.416
	1106	CG	GLN	783	29.225	59.669	15.557
	1107	CD	GLN	783	28.571	59.239	16.479
	1108	OE1	GLN	783	30.618	59.475	15.570
		NE2	GLN	783		59.552	16.532
	1109	1HE2	GLN	783	30.948	59.941	14.847
		2HE2	GLN	783	25.446	57.695	12.493
	1111	N	CYS	784		57.100	12.023
	1112	CA	CYS	784	24.205 25.686	58,565	12.035
	1113	HN	CYS	784		55.669	11.442
	1114	C	CYS	784	24.455	55.056	10.994
	1115	o	CYS	784	23.491	57.996	10.914
	1116	СВ	CYS	784	23.599	59.176	11.504
	1117	SG	CYS	784	22.363	59.709	10.322
	1118	HG	CYS	784	22.061	55.124	11.438
	1119	N	VAL	785	25.779	53.807	11.104
	1120	CA	VAL	785	25.912	55.639	11.944
	1121	HN	VAL	785	26.470	52.926	12.098
	1122	$-\frac{m}{c}$	VAL	785	25.261	51.860	11.743
	1123	- 0	VAL	785	24.784	53.505	11.015
	1124	СВ	VAL	785	27.461	52.919	12.292
	1125	CG1	VAL	785	28.124	52.534	9.872
	1126	CG2	VAL	785	27.846	53.364	13.345
	1127	N N	ARG	786	25.210	52.485	14.303
i	1128	CA	ARG	786	24.613	54.261	13,604
	1129		ARG	786	25.569	52.462	14.182
	1130	HN	ARG	786	23.134	51.556	14.682
	1131	C 0	ARG	786	22.488	52.862	15.743
	1132		ARG	786	25.058	52.533	16.077
0	1133	CB	ARG	786	26.537		16.214
J	1134	CG	ARG	786	27.404	53.791	16.529
	1135	CD	ARG	786	28.793	53.370	16.714
	1136	NE OT	ARG	786	29.821	54.186	16.649
	1137	CZ	ARG	786	29.750	55.483	16.442
	1138	NH1	ARG	786	28.811	55.822	16.810
15	1139	1HH1	ARG	786	30.610	56.004	16.975
	1140	2HH1	ARG	786	30.962	53.653	17.003
	1141	NH2	ARG	786	30.910	52.633	17.115
	1142	1HH2	ARG	786	31.757	54.274	
	1143	2HH2		786	28.967	52.388	16.607
50	1144	HE	ARG	787	22.362	53.565	
	1145	N	MET	787	20.914	53.644	13.317
	1146	CA	MET MET	787	22.895	54.316	13.257

	1148	С	MET	787	20.615	52.774	12.060
	1149	0	MET	787	19.523	52.225	11.947
	1150	CB	MET	787	20.545	55.080	12.895
_	1151	CG	MET	787	20.214	56.022	14.047
5	1152	SD	MET	787	19.941	57.729	13.485
	1153	CE	MET	787	20.679	58.638	14.873
	1154	N	ARG	788	21.643	52.808	11.071
	1155	CA	ARG	788	21.545	52.016	9.879
	1156	HN		788	22.321		
10		C	ARG		21.468	53.542	11.110
	1157		ARG	788		50.589	10.305
	1158	0	ARG	788	20.835	49.738	9.690
	1159	CB	ARG	788	22.833	52.293	9.056
	1160	CG	ARG	788	22.708	53.433	8.011
4-5	1161	CD	ARG	788	24.063	53.832	7.411
15	1162	NE	ARG	788	23.839	54.942	6.450
	1163	CZ	ARG	788	24.782	55.549	5.742
	1164	NH1	ARG	788	26.046	55.246	5.791
	1165	1HH1	ARG	788	26.249	54.481	6.435
	1166	2HH1	ARG	788	26.675	55.784	5.199
20	1167	NH2	ARG	788	24.416	56.499	4.957
	1168	1HH2	ARG	788	23.407	56.657	4.993
	1169	2HH2	ARG	788	25.134	56.971	4.412
	1170	HE	ARG	788	22.899	55.259	6.327
	1171	N	HIS	789	22.153	50.339	11.396
25	1172	CA	HIS	789	22.243	49.017	11.904
25	1173	HN	HIS	789	22.616	51.086	11.873
	1174	C	HIS	789	20.950	48.353	12.340
	1175	0	HIS	789	20.775	47.145	12.174
	1176	СВ	HIS	789	23.254	49.033	13.063
	1177	CG	HIS	789	23.245	47.752	13.845
30	1178	ND1	HIS	789	23.758	46.531	13.415
	1179	CE1	HIS	789	23.365	45.744	14.434
	1180	NE2	HIS	789	22.661	46.314	15.450
	1181	CD2	HIS	789	22.586	47.627	15.060
	1182	HE2	HIS	789	22.279	45.877	16.301
35	1183	N	LEU	790	20.049	49.131	12.906
	1184	CA	LEU	790	18.817	48.561	13.415
	1185	HN	LEU	790	20.216	50.114	12.985
	1186	C	LEU	790	17.807	48.322	12.301
	1187	ō	LEU	790	17.107	47.307	12.280
	1188	CB	LEU	790	18.223	49.485	14.515
40	1189	CG	LEU	790	19.132	50.595	15.108
	1190	CD1	LEU	790	18.405	51.321	16.248
	1191	CD2	LEU	790	20.478	50.052	15.615
	1192	N N	SER	791	17.761	49.278	
	1193	CA					11.384
45	1193	HN	SER	791	16.882	49.259	10.220
			SER	791	18.369	50.064	11.497
	1195	C	SER	791	17.248	48.056	9.390
	1196	0	SER	791	16.448	47.474	8.650
	1197	CB	SER	791	17.148	50.497	9.388
50	1198	OG	SER	791	17.297	50.290	8.012
50	1199	HG	SER	791	17.517	51.144	7.619
	1200	N	GLN	792	18.510	47.706	9.525
ĺ	1201	CA	GLN	792	19.063	46.614	8.791
Į	1202	HN	GLN	792	19.094	48.216	10.156
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				1 =00	18.670	45.295	9.410
	1203	C	GLN	792	18.528	44.284	8.737
	1204	0	GLN	792	20.598	46.786	8.783
	1205	CB	GLN	792	21.441	45.470	8.858
	1206	CG	GLN	792	22.971	45.564	8.916
5	1207	CD	GLN	792		44.562	9.015
		OE1	GLN	792	23.661	46.735	8.884
	1208	NE2	GLN	792	23.555	47.534	8.871
	1209	2HE2	GLN	792	22.920	46.713	8.993
	1210	1HE2	GLN	792	24.571		10.714
	1211	N	GLU	793	18.482	45.308	11.393
10	1212		GLU	793	18.132	44.091	11.228
	1213	CA	GLU	793	18.582	46.159	11.239
	1214	HN	GLU	793	16.668	43.824	11.129
	1215	C	GLU	793	16.230	42.679	
	1216	0	GLU	793	18.518	44.229	12.845
15	1217	CB		793	19.997	44.150	12.996
	1218	CG	GLU	793	20.469	42.740	12.723
	1219	CD	GLU	793	20.202	41.865	13.569
	1220	OE1	GLU	793	21.081	42.493	11.663
	1221	OE2	GLU		21.309	41.576	11.637
	1222	HE2	GLU	793	15.909	44.900	11.228
20	1223	N	PHE	794	14.477	44.796	11.066
	1224	CA	PHE	794	16.330	45.802	11.332
	1225	HN	PHE	794	14.232	44.138	9.744
	1226	С	PHE	794	13.408	43.246	9.581
	1227	0	PHE	794		46.228	11.037
25	1228	CB	PHE	794	13.862	46.904	12.399
20		CG	PHE	794	13.638	48.242	12,448
	1229	CD1	PHE	794	13.231	48.891	13.671
	1230	CEI	PHE	794	13.102	48.203	14.854
	1231	CZ	PHE	794	13.362		14,813
	1232	CE2	PHE	794	13.757	46.867	13.588
30	1233		PHE	794	13.897	46.218	8.782
	1234	CD2	GLY	795	14.976	44.617	7,476
	1235	N	GLY	795	14.838	44.102	8.971
	1236	CA	GLY	795	15.639	45.342	7.417
	1237	HN	GLY	795	15.235	42.653	
35	1238	C	GLY	795	14.511	41.796	6.912
00	1239	0		796	16.426	42.387	7.907
	1240	N	TRP	796	16.928	41.041	7.870
	1241	CA	TRP	796	16.981	43.119	8.304
	1242	HN	TRP	796	16.024	40.070	8.594
	1243	C	TRP	796	15.810	38.937	8.166
40	1244	0	TRP	796	18.344	41.020	8.510
	1245	CB	TRP		18.823	39.637	8.963
	1246	CG	TRP	796	20.079	39.349	9.535
	1247	CD1	TRP	796	20.240	37.968	9.764
	1248	NE1	TRP	796	19.052	37,416	9.313
45	1249	CE2	TRP	796	18.184	38.423	8.823
	1250	CD2	TRP	796		37.477	10.131
		HE1	TRP	796	21.063	38.084	8.283
	1251	CE3	TRP	796	16.916	36.740	8.264
	1252	CZ3	TRP	796	16.542	35.743	8.755
	1253	CH2	TRP	796	17.397		9.276
50	1254	CZ2	TRP	796	18.653	36.062	9.712
	1255		LEU	797	15.495	40.520	10.510
	1256	N OA	LEU	797	14.655	39.668	10.310
	1257	CA	LEU				

	1258	HN	LEU	797	15.677	41.458	10.007
	1259	C	LEU	797	13.233	39.665	10.035
	1260	0	LEU	797	12.396	38.918	10.547
5	1261	CB	LEU	797	14.713	40.140	11.936
3	1262	CG	LEU	797	15.052	39.039	12.925
	1263	CD1	LEU	797	16.041	38.065	12.339
	1264	CD2	LEU	797	15.612	39.703	14.158
	1265	N	GLN	798	12.952	40.532	9.071
	1266	CA	GLN	798	11.615	40.583	8.549
10	1267	HN	GLN	798	13.660	41.140	8.713
	1268	С	GLN	798	10.695	40.731	9.721
	1269	0	GLN	798	9.911	39.842	10.019
	1270	CB	GLN	798	11.347	39.285	7.826
	1271	CG	GLN	798	12.088	39.230	6.534
15	1272	CD	GLN	798	11.426	40.137	5.538
	1273	OE1	GLN	798	12.016	41.104	5.053
	1274	NE2	GLN	798	10.143	39.757	5.076
	1275	1HE2	GLN	798	9.717	40.296	4.336
	1276	2HE2	GLN	798	9.714	38.902	5.392
20	1277	N	ILE	799	10.802	41.849	10.410
	1278	CA	ILE	799	9.957	42.060	11.554
	1279	HN	ILE	799	11.465	42.546	10.139
	1280	C	ILE	799	8.636	42.654	11.111
	1281	0	ILE	799	8.601	43.514	10.245
25	1282	CB	ILE	799	10.695	42.984	12.606
23	1283	CG1	ILE	799	9.752	43.671	13.645
	1284	CG2	ILE	799	11.563	44.092	11.934
	1285	CD1	ILE	799	10.446	44.309	14.866
	1286	N	THR	800	7.549	42.174	11.707
	1287	CA	THR	800	6.206	42.646	11.374
30	1288	HN	THR	800	7.653	41.466	12.405
	1289	C	THR	800	5.740	43.761	12.307
	1290	0	THR	800	6.142	43.810	13.468
	1291	CB	THR	800	5.226	41.426	11.437
	1292	OG1	THR	800	4.904	41.115	12.786
<i>35</i>	1293	HG1	THR	800	4.250	40.410	12.749
	1294	CG2	THR	800	5.748	40.098	10.847
	1295 1296	N	PRO	801 801	4.866	44.635	11.811
	1290	CA	PRO	801	3.904	45.754	12.613
	1298	0	PRO PRO	801	4.118	45.330	13.998
40	1299	CB	PRO	801	3.235	46.035 46.428	14.988 11.802
	1300	CG	PRO	801	2.565	45.259	11.065
	1301	CD	PRO	801	3.742	44.349	10.705
	1302	N	GLN	802	3.249	44.186	14.073
	1303	CA	GLN	802	2.791	43.772	15.369
45	1304	HN	GLN	802	3.079	43.631	13.259
	1305	C	GLN	802	3.939	43.440	16.298
	1306	ō	GLN	802	3.917	43.859	17.456
	1307	CB	GLN	802	1.795	42.595	15.279
	1308	CG	GLN	802	0.278	42.976	15.236
50	1309	CD	GLN	802	-0.774	41.860	15.274
	1310	OE1	GLN	802	-0.681	40.932	16.061
	1311	NE2	GLN	802	-1.779	41.881	14.435
	1312	2HE2	GLN	802	-1.761	42.646	13.759
						L	

			CY XX	902	-2,397	41.069	14.483
	1313	1HE2	GLN	802 803	4.954	42.726	15.820
	1314	N	GLU		6.095	42.447	16.690
	1315	CA	GLU	803	4.937	42.385	14.881
5	1316	HN	GLU	803	6.767	43.775	17.046
	1317	C	GLU	803	7.105	44.024	18.194
	1318	0	GLU	803	7.107	41.550	15.999
	1319	CB	GLU	803	6.522	40.254	15.553
	1320	CG	GLU	803	7.380	39.567	14.525
10	1321	CD	GLU	803	7.888	40.268	13.614
10	1322	OE1	GLU		7.534	38.332	14.621
	1323	OE2	GLU	803	8.090	38.028	13.920
	1324	HE2	GLU	803 804	6.961	44.631	16.052
	1325	N	PHE		7.599	45.926	16.270
	1326	CA	PHE	804	6.663	44.383	15.130
15	1327	HN	PHE	804	6.929	46.789	17.341
	1328	<u>C</u>	PHE	804	7.599	47.422	18.157
	1329	0	PHE	804	7.619	46.716	14.927
	1330	СВ	PHE	804	7.823	48.236	15.031
	1331	CG	PHE	804	9.111	48.750	15.221
20	1332	CD1	PHE	804	9.326	50.123	15.217
	1333	CE1	PHE	804	8.259	50.993	15.006
	1334	CZ	PHE	804	6.975	50.488	14.803
	1335	CE2	PHE	804	6.757	49.113	14.818
	1336	CD2	PHE	804	5.607	46.853	17.289
25	1337	N	LEU	805	4.846	47.635	18.238
23	1338	CA	LEU	805	5.123	46.347	16.575
	1339	HN	LEU	805	5.157	47.193	19.666
	1340	C	LEU	805	5.472	48.013	20.534
	1341	0	LEU	805	3.348	47.483	17.961
	1342	CB	LEU	805	2.776	48.377	16.869
30	1343	CG	LEU	805 805	1.284	48,208	16.796
	1344	CD1	LEU	805	3.116	49.813	17.180
	1345	CD2	LEU	806	5.049	45.885	19.882
	1346	N	CYS	806	5.314	45.273	21.168
	1347	CA	CYS	806	4.771	45.298	19.122
35	1348	HN	CYS	806	6.753	45.478	21.587
	1349	C	CYS	806	7.049	45.668	22.759
	1350	10	CYS	806	5.047	43.781	21.103
	1351	CB	CYS	806	3.280	43.364	20.905
	1352	SG	CYS	806	3.138	42.037	20.857
40	1353	HG	CYS	807	7.657	45.430	20.633
	1354	N	MET	807	9.054	45.604	20.957
	1355	CA	MET	807	7.378	45.273	19.686
	1356	HN	MET	807	9.406	47.017	21.406
	1357	C	MET	807	10.286	47.205	22.252
45	1358	0	MET		9.920	45.227	19.760
45	1359	CB	MET	807	10.038	43.744	19.538
	1360	CG	MET	807 807	11.148	43.450	18.194
	1361	SD	MET	807	10.046	43.456	16.968
	1362	CE	MET	808	8.737	48.013	20.833
	1363	N	LYS	808	9.020	49.393	21.192
50	1364	CA	LYS		8.035	47.811	20.150
	1365	HN	LYS	808	8.475	49.690	22.582
	1366	C	LYS	808	9.008	50.541	23.304
	1367	0					

	1368	CB	LYS	808	8.393	50.324	20.170
	1369	CG	LYS	808	8.973	51.714	20.152
	1370	CD	LYS	808	8.430	52.481	18.948
_	1371	CE	LYS	808	6.976	52.947	19.146
5	1372	NZ	LYS	808	5.878	51.911	19.313
	1373	HZ1	LYS	808	4.967	52.385	19.393
	1374	HZ2	LYS	808	5.868	51.285	18.495
	1375	HZ3	LYS	808	6.049	51.374	20.139
	1376	N	ALA	809	7.405		
10	1377	CA			6.794	48.990	22.947
			ALA	809		49.152	24.249
	1378	HN	ALA	809	7.011	48.333	22.304
	1379	C	ALA	809	7.792	48.552	25.214
	1380	0	ALA	809	8.098	49.138	26.238
	1381	CB	ALA	809	5.433	48.434	24.276
15	1382	N	LEU	810	8.316	47.381	24.860
	1383	CA	LEU	810	9.317	46.724	25.680
	1384	HN	LEU	810	8.013	46.945	24.013
	1385	C	LEU	810	10.541	47.619	25.856
	1386	0	LEU	810	11.125	47.645	26.920
20	1387	CB	LEU	810	9.732	45.399	25.057
	1388	CG	LEU	810	9.203	44.140	25.744
	1389	CD1	LEU	810	8.142	44.484	26.747
	1390	CD2	LEU	810	8.655	43.185	24.714
	1391	N	LEU	811	10.939	48.369	24.839
05	1392	CA	LEU	811	12.106	49.226	25.037
25	1393	HN	LEU	811	10.456	48.350	23.963
	1394	С	LEU	811	11.882	50.322	26.062
	1395	0	LEU	811	12.836	50.825	26.638
	1396	CB	LEU	811	12.541	49.892	23.740
	1397	CG	LEU	811	13.182	49.049	22.650
30	1398	CD1	LEU	811	13.307	49.968	21.459
	1399	CD2	LEU	811	14.549	48.490	23.053
	1400	N	LEU	812	10.630	50.712	26.265
	1401	CA	LEU	812	10.312	51.764	27.230
	1402	HN	LEU	812	9.890	50.278	25.750
35	1403	C	LEU	812	10.574	51.184	28.611
55	1404	ō	LEU	812	10.954	51.899	29.541
	1405	CB	LEU	812	8.839	52.169	27.109
	1406	CG	LEU	812	8.322	53.116	28.189
	1407	CD1	LEU	812	9.120	54.420	28.142
	1408	CD2	LEU	812	6.830	53.361	27.988
40	1409	N	PHE	813	10.381	49.872	28.710
	1410	CA	PHE	813	10.577	49.134	29.944
	1411	HN	PHE	813	10.089	49.370	27.896
	1411	C	PHE	813	11.923	48.441	29.920
				 			
45	1413	0	PHE	813	12.131 9.458	47.479	30.657
	1414	CB	PHE	813		48.055	30.068
	1415	CG	PHE	813	8.019	48.533	29.822
	1416	CD1	PHE	813	6.960	47.624	29.937
	1417	CE1	PHE	813	5.660	48.020	29.640
50	1418	CZ	PHE	813	5.407	49.331	29.243
50	1419	CE2	PHE	813	6.455	50.245	29.139
	1420	CD2	PHE	813	7.758	49.847	29.426
	1421	N	SER	814	12.836	48.936	29.093
	1422	CA	SER	814	14.140	48.299	28.921
	-						

						40.766	28.575
		Lant	SER	814	12.627	49.766	29.904
	1423	HN	SER	814	15.279	48.552	29.754
	1424	<u>C</u>	SER	814	16.359	47.972	27.506
	1425	0	SER	814	14.661	48.552	27.308
	1426	CB	SER	814	15.276	49.824	27.041
	1427	OG		814	14.565	50.423	30.877
	1428	HG	SER	815	15.084	49.428	
	1429	N	ILE	815	16.134	49.624	31.870
	1430	CA	ILE	815	14.231	49.947	30.930
	1431	HN	ILE	815	15.597	50.417	33.047
)	1432	C	ILE		14.769	51.313	32.899
	1433	0	ILE	815	17.441	50.281	31.265
	1434	СВ	ILE	815	17.293	51.786	30.874
	1435	CG1	ILE	815	17.986	49.509	30.023
		CG2	ILE	815		52.540	30.588
	1436	CD1	ILE	815	18.608	50.023	34.233
5	1437	N N	ILE	816	16.033	50.666	35.447
	1438	CA	ILE	816	15.585	49.266	34.291
	1439		ILE	816	16.684	51.117	36.256
	1440	HN	ILE	816	16.791		35.961
	1441		ILE	816	17.930	50.741	36.266
20	1442	<u> </u>	ILE	816	14.666	49.671	35.608
	1443	CB	ILE	816	13.280	49.373	37.730
	1444	CG1		816	14.415	50.145	36.195
	1445	CG2	ILE	816	12.498	48.180	
	1446	CD1	ILE	817	16.563	51.958	37.275
	1447	N	PRO	817	17.668	52.431	38.099
25	1448	CA	PRO	817	15.276	52.418	37.819
	1449	CD	PRO		18.185	51.221	38.868
	1450	C	PRO	817	17.402	50.334	39.217
	1451	0	PRO	817	16.993	53.465	38.993
	1452	CB	PRO	817	15.648	52.866	39.206
30	1453	CG	PRO	817	19.493	51.150	39.095
30	<u> </u>	N	VAL	818		50.018	39.834
	1454	CA	VAL	818	20.051	51.873	38.760
	1455	HN	VAL	818		50.210	41.288
	1456	C	VAL	818	19.707	50.805	42.041
	1457	0	VAL	818	20.462	49.930	39.634
35	1458	CB	VAL	818	21.616	49.182	40.739
	1459	CG1	VAL	818	22.412	49.265	38.302
	1460		VAL	818	22.042		41.671
	1461	CG2	ASP	819	18.554	49.692	43.023
	1462	N	ASP	819	18.050	49.804	40.995
40	1463	CA	ASP	819	18.004	49.200	42.796
40	1464	HN	ASP	819	16.579	49.551	43.627
	1465	C	ASP	819	15.893	48.957	
	1466	0		819	18.259	51.217	43.592
	1467	CB	ASP	819	19.591	51.361	44.337
	1468	CG	ASP	819	20.076	50.357	44.906
45	1469	OD1	ASP	819	20.141	52.485	44.364
	1470	OD2	ASP		20.948	52.430	44.853
	1471	HD2	ASP	819	16.109	50.000	41.634
	1472	N	GLY	820	14.719	49.790	41.279
	1472	CA	GLY	820	16.717	50.483	41.004
		HN	GLY	820		50.996	41.429
50	1474	C	GLY	820	13.825	52.016	42.013
	1475	- 0	GLY	820	14.203	50.858	40.909
	1476	1 (1	1 022	821	12.610		

	1478	CA	LEU	821	11.630	51.928	40.943
	1479	HN	LEU	821	12.363	49.989	40.480
	1480	С	LEU	821	10.728	51.875	42.168
5	1481	0	LEU	821	10.668	50.869	42.873
•	1482	CB	LEU	821	10.747	51.874	39.691
	1483	CG	LEU	821	11.282	51.133	38.465
	1484	CD1	LEU	821	10.234	51.086	37.376
	1485	CD2	LEU	821	12.499	51.831	37.961
	1486	N	LYS	822	10.023	52.977	42.394
10	1487	CA	LYS	822	9.092	53.097	43.507
	1488	HN	LYS	822	10.136	53.755	41.776
	1489	С	LYS	822	7.993	52.055	43.370
	1490	O	LYS	822	7.441	51.575	44.364
	1491	CB	LYS	822	8.456	54.488	43.516
15	1492	CG	LYS	822	9.436	55.628	43.706
	1493	CD	LYS	822	8.712	56.915	44.064
	1494	CE	LYS	822	9.633	58.114	43.934
	1495	NZ	LYS	822	9.044	59.459	44.297
	1496	HZ1	LYS	822	9.774	60.183	44.231
00	1497	HZ2	LYS	822	8.277	59.685	43.648
20	1498	HZ3	LYS	822	8.690	59.427	45.232
	1499	N	ASN	823	7.685	51.710	42.124
	1500	CA	ASN	823	6.638	50.742	41.831
	1501	HN	ASN	823	8.186	52.127	41.367
	1502	C	ASN	823	7.218	49.524	41.124
25	1503	ō	ASN	823	6.548	48.918	40.287
	1504	CB	ASN	823	5.554	51.426	40.949
	1505	CG	ASN	823	5.219	52.887	41.269
	1506	OD1	ASN	823	5.671	53.817	40.618
	1507	ND2	ASN	823	4.443	53.147	42.287
<i>30</i>	1508	1HD2	ASN	823	4.407	54.146	42.505
	1509	2HD2	ASN	823	4.156	52.356	42.864
	1510	N	GLN	824	8.456	49.178	41.466
	1511	CA	GLN	824	9.149	48.037	40.861
	1512	HN	GLN	824	8.931	49.716	42.162
35	1513	С	GLN	824	8.192	46.878	40.678
	1514	0	GLN	824	8.146	46.244	39.621
	1515	CB	GLN	824	10.317	47.597	41.749
	1516	CG	GLN	824	11.125	46.435	41.192
	1517	CD	GLN	824	11.753	46.736	39.838
40	1518	OE1	GLN	824	12.593	47.637	39.708
40	1519	NE2	GLN	824	11.300	46.051	38.710
	1520	1HE2	GLN	824	11.713	46.227	37.809
	1521	2HE2	GLN	824	10.698	45.239	38.819
	1522	N	LYS	825	7.428	46.617	41.721
	1523	CA	LYS	825	6.437	45.559	41.743
45	1524	HN	LYS	825	7.538	47.180	42.541
	1525	С	LYS	825	5.617	45.521	40.432
	1526	0	LYS	825	5.665	44.542	39.674
	1527	СВ	LYS	825	5.509	45.753	42.974
	1528	CG	LYS	825	5.192	47.239	43.277
50	1529	CD	LYS	825	6.046	47.867	44.381
	1530	CE	LYS	825	7.479	47.326	44.282
	1531	NZ	LYS	825	8.344	48.054	45.227
	1532	HZ2	LYS	825	7.837	48.262	46.095
'				L			

						1 45 400	145.500
	1533	HZ1	LYS	825	9.156	47.490	45.500
	1534	HZ3	LYS	825	8.656	48.906	44.807
	1535	N	PHE	826	4.911	46.618	40.171
	1536	CA	PHE	826	4.043	46.821	39.000
5	1537	HN	PHE	826	4.976	47.370	40.826
	1538	С	PHE	826	4.787	46.827	37.655
	1539	0	PHE	826	4.284	46.363	36.626
	1540	CB	PHE	826	3.299	48.180	39.169
	1541	CG	PHE	826	1.789	48.172	38.885
10	1542	CD1	PHE	826	1.182	49.308	38.335
	1543	CE1	PHE	826	-0.195	49.346	38.146
	1544	CZ	PHE	826	-0.974	48.244	38.490
	1545	CE2	PHE	826	-0.375	47.105	39.026
	1546	CD2	PHE	826	1.002	47.069	39.226
15	1547	N	PHE	827	5.974	47.402	37.672
	1548	CA	PHE	827	6.803	47.465	36.494
	1549	HN	PHE	827	6.307	47.805	38.525
	1550	C	PHE	827	6.951	46.051	35.974
	1551	0	PHE	827	6.585	45.728	34.845
00	1552	CB	PHE	827	8.162	47.986	36.894
20	1553	CG	PHE	827	9.121	48.038	35.779
	1554	CD1	PHE	827	9.173	49.152	34.962
	1555	CE1	PHE	827	10.054	49.210	33.908
	1556	CZ	PHE	827	10.896	48.134	33.652
	1557	CE2	PHE	827	10.851	47.007	34.469
25	1558	CD2	PHE	827	9.958	46.962	35.523
	1559	N	ASP	828	7.494	45.200	36.835
	1560	CA	ASP	828	7.725	43.824	36.478
	1561	HN	ASP	828	7.746	45.520	37.748
	1562	C	ASP	828	6.457	43.114	36.085
30	1563	0	ASP	828	6.497	42.067	35.439 37.621
	1564	CB	ASP	828	8.428	43.100	
	1565	CG	ASP	828	9.875	43.534	37.760
	1566	OD1	ASP	828	10.488	43.887	38.890
	1567	OD2	ASP	828	10.406	43.513	38.823
35	1568	HD2	ASP	828	11.302	43.807	36.452
**	1569	N	GLU	829	5.322	43.685	36.084
	1570	CA	GLU	829	4.073	43.059	36.976
	1571	HN	GLU	829	5.329	44.536	34.675
	1572	C	GLU	829	3.716	43.494	33.831
40	1573	0	GLU	829	3.333	42.673	37.028
40	1574	CB	GLU	829	2.972	43.475	36.823
	1575	CG	GLU	829	1.739	42.656	37.463
	1576	CD	GLU	829	0.549	43.287	38.432
	1577	OE1	GLU	829	0.751	44.056	37.001
	1578	OE2	GLU	829	-0.580		37.491
45	1579	HE2	GLU	829	-1.243	43.470	34.429
	1580	N	LEU	830	3.845	44.792	33.128
	1581	CA	LEU	830	3.554	45.353	35.128
	1582	HN	LEU	830	4.151	45.398	32.155
	1583	C	LEU	830	4.558	44.788	31.119
50	1584	0	LEU	830	4.190		33.186
	1585	CB	LEU	830	3.648	46.904 47.670	34.034
	1586	CG	LEU	830	2.597	49.183	33.847
	1587	CD1	LEU	830	2.769	1 47.103	1 75.071

1588								
1590		1588	CD2		830	1.153	47.266	33.696
1591 HN ARG 831 6.083 45.314 33.368 1592 C ARG 831 6.663 42.886 31.230 1593 O ARG 831 7.031 42.498 30.125 1594 CB ARG 831 8.222 44.447 32.276 1595 CG ARG 831 9.338 43.990 31.382 1596 CD ARG 831 10.592 44.687 31.817 1597 NE ARG 831 10.592 44.687 31.817 1598 CZ ARG 831 11.788 44.423 31.025 1599 NH1 ARG 831 11.724 43.212 30.720 1599 NH1 ARG 831 11.722 42.067 31.237 1600 1HH1 ARG 831 12.140 41.185 30.975 1601 2HH1 ARG 831 10.954 42.117 31.874 1602 NH2 ARG 831 13.301 43.102 29.867 1603 11.112 ARG 831 13.566 42.201 29.627 1604 2HH2 ARG 831 13.306 43.102 29.867 1605 HE ARG 831 12.305 45.210 30.688 1606 N MET 832 5.894 40.660 31.804 1608 HN MET 832 5.894 40.660 31.804 1609 C MET 832 5.894 40.660 31.804 1609 C MET 832 5.890 42.421 33.011 1609 C MET 832 5.893 40.660 31.804 1609 C MET 832 5.557 38.364 32.952 1611 CB MET 832 5.557 38.364 32.952 1612 CG MET 832 5.557 38.364 32.952 1613 SD MET 832 5.557 38.364 32.952 1614 CE MET 832 5.557 38.364 32.952 1615 N ASN 833 3.773 42.038 31.653 1616 CA ASN 833 3.773 42.038 31.653 1620 CB ASN 833 3.730 41.314 30.040 1617 HN ASN 833 3.730 41.314 30.040 1620 CB ASN 833 3.143 42.206 32.605 1621 CG ASN 833 3.143 42.206 32.605 1622 ODI ASN 833 3.143 42.206 32.605 1623 CDI TYR 834 3.812 42.633 28.428 1624 HID2 ASN 833 0.356 41.188 33.515 1625 2HD2 ASN 833 0.356 41.188 33.515 1636 CH TYR 834 4.177 43.149 25.204 1637 CA TYR 834 4.177 43.149 25.204 1638 CDI TYR 834 4.140 47.080 27.2			N	ARG	831	5.831	44.879	32.504
1592		1590	CA	ARG	831	6.857	44.348	31.632
1592	5	1591	HN	ARG	831	6.083	45.314	33.368
1594 CB	3	1592	C	ARG	831	6.663	42.886	31.230
1595		1593	0	ARG	831	7.031	42.498	30.125
1595 CG		1594	СВ	ARG	831	8.222	44.487	32.276
1596		1595	CG	ARG		9.338		
1597		1596	CD	ARG		10.592		
1598	10	1597	NE	ARG	831	11.788		
1599		1598	CZ					
1600		1599	NH1	ARG		11.722		
1601		1600	1HH1	ARG	831	12.110		
1602		1601	2HH1	ARG	831			
1603	15	1602	NH2					
1604 2HH2 ARG 831 13.711 43.925 29.480 1605		1603	1HH2	ARG	831			
1605		1604	2HH2	ARG				
1606		1605	HE	ARG	831			
1607		1606	N	MET		6.107		
1608	20	1607	CA	MET				
1609 C MET 832 4.759 40.503 30.792 1610 O MET 832 4.808 39.640 29.913 1611 CB MET 832 5.565 39.887 33.086 1612 CG MET 832 5.565 39.887 33.086 1613 SD MET 832 5.557 38.364 32.952 1613 SD MET 832 7.172 37.729 32.409 1614 CE MET 832 6.700 37.034 30.872 1615 N ASN 833 3.740 41.353 30.925 1616 CA ASN 833 2.576 41.314 30.040 1617 HR ASN 833 3.773 42.038 31.653 1618 C ASN 833 2.399 41.645 28.607 1619 O ASN 833 2.399 41.645 28.607 1620 CB ASN 833 1.472 42.277 30.566 1621 CG ASN 833 1.472 42.277 30.566 1622 OD1 ASN 833 1.143 42.206 32.060 1623 ND2 ASN 833 1.143 42.206 32.060 1624 1HD2 ASN 833 0.356 41.188 33.515 1625 2HD2 ASN 833 0.356 41.188 33.515 1626 N TYR 834 4.212 42.934 27.078 1627 CA TYR 834 4.177 43.149 29.204 1628 HN TYR 834 4.177 43.149 29.204 1630 O TYR 834 4.742 44.368 26.937 1631 CB TYR 834 4.742 44.368 26.937 1632 CG TYR 834 4.742 44.368 26.937 1633 CD1 TYR 834 4.742 44.368 26.937 1634 CE1 TYR 834 4.742 44.368 26.937 1635 CZ TYR 834 4.742 44.368 26.937 1636 OH TYR 834 1.490 46.230 26.193 1637 HH TYR 834 0.360 47.950 27.408 1639 CD2 TYR 834 3.523 46.270 28.079 1640 N ILE 835 6.748 40.123 26.919	20	1608	HN	MET	832		42.421	
1611 CB MET 832 5.565 39.887 33.086 1612 CG MET 832 5.557 38.364 32.952 1613 SD MET 832 7.172 37.729 32.409 1614 CE MET 832 6.700 37.034 30.872 1615 N ASN 833 3.740 41.353 30.925 1616 CA ASN 833 2.576 41.314 30.040 1617 HN ASN 833 2.576 41.314 30.040 1618 C ASN 833 2.939 41.645 28.607 1619 O ASN 833 2.409 41.038 27.664 1620 CB ASN 833 1.472 42.277 30.566 1621 CG ASN 833 1.472 42.277 30.566 1622 OD1 ASN 833 1.580 43.017 32.863 1623 ND2 ASN 833 0.356 41.188 33.515 1624 1HD2 ASN 833 0.356 41.188 33.515 1625 27HD2 ASN 833 0.316 40.521 31.814 1626 N TYR 834 4.212 42.934 27.078 1627 CA TYR 834 4.177 43.149 29.204 1629 C TYR 834 4.177 43.149 29.204 1629 C TYR 834 4.177 43.149 29.204 1631 CB TYR 834 4.177 43.149 29.204 1633 CD1 TYR 834 4.177 43.149 29.204 1631 CB TYR 834 4.147 44.368 26.937 1632 CG TYR 834 4.147 44.368 26.937 1633 CD1 TYR 834 4.140 47.080 27.284 1634 CE1 TYR 834 4.140 47.080 27.284 1637 HH TYR 834 0.446 48.416 28.251 1638 CE2 TYR 834 0.446 48.416 28.251 1639 CD2 TYR 834 0.446 48.416 28.251 1640 N ILE 835 5.828 41.106 27.485 1641 CA ILE 835 5.748 40.123 26.919		1609	C	MET	832	4.759	40.503	
1612 CG MET 832 5.557 38.364 32.952 1613 SD MET 832 7.172 37.729 32.409 1614 CE MET 832 6.700 37.034 30.872 1615 N ASN 833 3.740 41.353 30.925 1616 CA ASN 833 2.576 41.314 30.040 1617 HN ASN 833 3.773 42.038 31.653 1618 C ASN 833 2.939 41.645 28.607 1619 O ASN 833 2.409 41.038 27.664 1620 CB ASN 833 1.472 42.277 30.566 1621 CG ASN 833 1.472 42.277 30.566 1622 OD1 ASN 833 1.143 42.206 32.060 1622 OD1 ASN 833 1.580 43.017 32.863 35 1623 ND2 ASN 833 0.388 41.232 32.493 1624 1HD2 ASN 833 0.388 41.232 32.493 1625 2HD2 ASN 833 0.315 40.521 31.814 1626 N TYR 834 3.812 42.633 28.428 1627 CA TYR 834 4.177 43.149 29.204 1629 C TYR 834 4.177 43.149 29.204 1629 C TYR 834 4.177 43.149 29.204 1631 CB TYR 834 4.742 44.368 26.937 1632 CG TYR 834 4.742 44.368 26.937 1633 CD1 TYR 834 4.742 44.368 26.937 1634 CEI TYR 834 4.742 44.368 26.937 1635 CZ TYR 834 4.742 44.368 26.937 1636 OH TYR 834 1.490 46.230 27.002 1637 HH TYR 834 0.360 47.950 27.408 1638 CE2 TYR 834 0.446 48.416 28.251 1639 CD2 TYR 834 0.446 48.416 28.251 1639 CD2 TYR 834 0.446 48.416 28.251 1630 ON ILE 835 5.828 41.106 27.485 1641 CA ILE 835 5.828 41.106 27.485 1641 CA ILE 835 5.828 41.106 27.485 1641 CA ILE 835 5.828 41.106 27.485 1641 CA ILE 835 5.828 41.106 27.485 1641 CA ILE 835 5.828 41.106 27.485 1641 CA ILE 835 6.748 40.123 26.919		1610	0	MET	832	4.808	39.640	29.913
1613 SD MET 832 7.172 37.729 32.409 1614 CE MET 832 6.700 37.034 30.872 1615 N ASN 833 3.740 41.353 30.925 1616 CA ASN 833 3.740 41.353 30.925 1617 HN ASN 833 3.773 42.038 31.653 1618 C ASN 833 2.939 41.645 28.607 1619 O ASN 833 2.409 41.038 27.664 1620 CB ASN 833 3.409 41.038 27.664 1621 CG ASN 833 3.409 41.038 27.664 1622 ODI ASN 833 3.1472 42.277 30.566 1623 ND2 ASN 833 3.1580 43.017 32.863 35 1623 ND2 ASN 833 3.388 41.232 32.493 1624 HD2 ASN 833 0.356 41.188 33.515 1625 2HD2 ASN 833 0.355 41.188 33.515 1626 N TYR 834 3.812 42.633 28.428 1627 CA TYR 834 4.212 42.934 27.078 1628 HN TYR 834 4.212 42.934 27.078 1629 C TYR 834 4.212 42.934 27.078 1630 O TYR 834 4.772 43.149 29.204 1629 C TYR 834 4.742 44.368 26.937 1631 CB TYR 834 4.742 44.368 26.937 1632 CG TYR 834 3.624 45.390 27.002 1633 CD1 TYR 834 3.624 45.390 27.002 1634 CE1 TYR 834 3.624 45.390 27.002 1635 CZ TYR 834 3.490 46.230 26.193 1636 OH TYR 834 3.490 46.230 26.193 1637 HH TYR 834 3.440 3.460 47.950 27.408 1638 CE2 TYR 834 3.440 3.460 47.950 27.408 1639 CD2 TYR 834 3.523 46.270 28.079 1640 N ILE 835 5.828 41.106 27.485 1641 CA ILE 835 5.828 41.106 27.485 1641 CA ILE 835 5.828 41.106 27.485 1641 CA ILE 835 5.828 41.106 27.485 1641 CA ILE 835 5.828 41.106 27.485 1641 CA ILE 835 5.828 41.106 27.485 1641 CA ILE 835 5.828 41.106 27.485 1641 CA ILE 835 5.828 41.106 27.485 1641 CA ILE 835 5.828 41.106 27.485 1641 CA ILE 835 5.828 41.102 23		1611	CB	MET	832	5.565	39.887	33.086
1613 SD MEI 832 7.172 37.729 32.409 1614		1612	CG	MET	832	5.557	38.364	32.952
1615 N	25	1613	SD	MET	832	7.172	37.729	32.409
1616		1614	CE	MET	832	6.700	37.034	30.872
1617		1615	N	ASN	833	3.740	41.353	30.925
1618					833		41.314	30.040
1619				ASN			42.038	31.653
1620	30							
1621							 	27.664
1622 OD1								
1623 ND2 ASN 833 0.388 41.232 32.493 1624			<u> </u>					
1624								
1625	35							
1626 N TYR 834 3.812 42.633 28.428 1627 CA TYR 834 4.212 42.934 27.078 1628 HN TYR 834 4.177 43.149 29.204 1629 C TYR 834 5.231 41.906 26.606 1630 O TYR 834 5.482 41.819 25.421 1631 CB TYR 834 4.742 44.368 26.937 1632 CG TYR 834 3.624 45.390 27.002 1633 CD1 TYR 834 2.598 45.389 26.052 1634 CE1 TYR 834 1.490 46.230 26.193 1635 CZ TYR 834 1.410 47.080 27.284 1636 OH TYR 834 0.360 47.950 27.408 1637 HH TYR 834 0.360 47.950 27.408 1638 CE2 TYR 834 0.446 48.416 28.251 1639 CD2 TYR 834 3.523 46.270 28.079 1640 N ILE 835 5.828 41.106 27.485 1641 CA ILE 835 5.828 41.106 27.485								
1627 CA TYR 834 4.212 42.934 27.078 1628 HN TYR 834 4.177 43.149 29.204 1629 C TYR 834 5.231 41.906 26.606 1630 O TYR 834 5.482 41.819 25.421 1631 CB TYR 834 4.742 44.368 26.937 1632 CG TYR 834 3.624 45.390 27.002 1633 CD1 TYR 834 2.598 45.389 26.052 1634 CE1 TYR 834 1.490 46.230 26.193 1635 CZ TYR 834 1.410 47.080 27.284 1636 OH TYR 834 0.360 47.950 27.408 1637 HH TYR 834 0.446 48.416 28.251 1638 CE2 TYR 834 2.427 47.107 28.224 50 1639 CD2 TYR 834 3.523 46.270 28.079 1640 N ILE 835 5.828 41.106 27.485 1641 CA ILE 835 5.828 41.106 27.485								
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1636 OH TYR 834 0.360 47.950 27.408 1637 HH TYR 834 0.446 48.416 28.251 1638 CE2 TYR 834 2.427 47.107 28.224 50 1639 CD2 TYR 834 3.523 46.270 28.079 1640 N ILE 835 5.828 41.106 27.485 1641 CA ILE 835 6.748 40.123 26.919								
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50 1639 CD2 TYR 834 3.523 46.270 28.079 1640 N ILE 835 5.828 41.106 27.485 1641 CA ILE 835 6.748 40.123 26.919								
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1641 CA ILE 835 6.748 40.123 26.919	50							
[20,408]								
						5.057	74.177	20.700

							1 2 4 2 2 2
	1643	C	ILE	835	5.924	39.010	26.292
	1644	 0	ILE	835	6.310	38.445	25.274
	1645	СВ	ILE	835	7.733	39.512	27.935
	1646	CG2	ILE	835	8.465	38.324	27.285
5	1647	CG1	ILE	835	8.770	40.563	28.335
	1648	CD1	ILE	835	9.397	40.319	29.678
	1649	N	LYS	836	4.782	38.702	26.894
	1650	CA	LYS	836	3.921	37.672	26.337
	1651	HN	LYS	836	4.514	39.179	27.732
10	1652	C	LYS	836	3.173	38.282	25.150
-	1653	Ö	LYS	836	2.781	37.583	24.217
	1654	СВ	LYS	836	2.939	37.173	27.394
	1655	CG	LYS	836	3.582	36.404	28.542
	1656	CD	LYS	836	2.575	36.312	29.676
15	1657	CE	LYS	836	2.909	35.261	30.726
10	1658	NZ	LYS	836	1.798	35.031	31.736
	1659	HZ1	LYS	836	1.400	35.937	32.021
	1660	HZ2	LYS	836	1.061	34.451	31.310
	1661	HZ3	LYS	836	2.168	34.562	32.538
	1662	N	GLU	837	2.985	39.594	25.194
20	1663	CA	GLU	837	2.314	40.291	24.115
	1664	HN	GLU	837	3.312	40.111	25.985
	1665	C	GLU	837	3.224	40.145	22.892
	1666	0	GLU	837	2.747	40.020	21.757
	1667	СВ	GLU	837	2.129	41.756	24.506
25	1668	CG	GLU	837	0.878	42.449	23.947
	1669	CD	GLU	837	-0.363	41.556	23.874
	1670	OE1	GLU	837	-0.768	40.962	24.903
	1671	OE2	GLU	837	-0.936	41.463	22.763
	1672	HE2	GLU	837	-1.683	40.889	22.841
30	1673	N	LEU	838	4.535	40.143	23.135
	1674	CA	LEU	838	5.502	39.980	
	1675	HN	LEU	838	4.861	40.255	24.074
	1676	C	LEU	838	5.325	38.560 38.275	20.383
	1677	0	LEU	838	5.338	40.169	22.549
35	1678	CB	LEU	838	6.945	39.886	21.417
	1679	CG	LEU	838	7.938	40.699	20.219
	1680	CD1	LEU	838	7.511	40.099	21.805
	1681	CD2	LEU	838	9.362	37.669	22.539
	1682	N	ASP	839	5.140	36.262	22.235
40	1683	CA	ASP	839	4.962	37.971	23.492
40	1684	HN	ASP	839	5.124	35.945	21.293
	1685	С	ASP	839	3.814	35.178	20.350
	1686	0	ASP	839	3.991	35.497	23.579
	1687	СВ	ASP	839	4.836	33.965	23.509
	1688	CG	ASP	839	4.904	33.235	24.184
45	1689	OD1	ASP	839	4.193 5.821	33.516	22.599
	1690	OD2	ASP	839	5.821	32.571	22.595
	1691	HD2	ASP	839		36.517	21.558
	1692	N	ARG	840	2.640 1.457	36.297	20.722
	1693	CA	ARG	840	2.563	37.116	22.355
50	1694	HN	ARG	840	1.676	36.840	19.320
	1695	C	ARG	840	1.331	36.197	18.326
	1696	0	ARG	840	0.244	36.979	21.411
	1697	CB	ARG	840	0.244	30.717	

	1.00	T 00	LARC	1040	1 0 000	126.454	1 00 006
	1698	CG	ARG	840	-0.080	36.454	22.835
	1699	CD	ARG	840	-1.170	37.279	23.532
	1700	NE	ARG	840	-1.819	36.423	24.557
5	1701	CZ	ARG	840	-2.807	36.797	25.359
	1702	NH1	ARG	840	-3.350_	37.978	25.353
	1703	1HH1	ARG	840	-2.940	38.603	24.658
	1704	2HH1	ARG	840	-4.102	38.147	26.018
	1705	NH2	ARG	840	-3.253	35.929	26.197
	1706	1HH2	ARG	840	-2.761	35.036	26.120
10	1707	2HH2	ARG	840	-4.009	36.210	26.817
	1708	HE	ARG	840	-1.484	35.485	24.650
	1709	N	ILE	841	2.213	38.053	19.254
	1710	CA	ILE	841	2.476	38.694	17.985
	1711	HN	ILE	841	2.440	38.534	20.101
15	1712		ILE	841	3.331	37.722	17.193
	1713	0	ILE	841	3.092	37.505	16.007
	1714	CB	ILE	841	3.218	40.072	18.222
	1715	CG1	ILE	841	2.425	41.096	19.097
	1716	CG2	ILE	841	3.618	40.780	16.891
20	1717	CD1	ILE	841	3.231	42.305	19.615
	1718	N	ILE	842	4.316	37.130	17.862
	1719	CA	ILE	842	5.197	36.165	17.212
	1720	HN	ILE	842	4.456	37.350	18.827
	1721	С	ILE	842	4.440	34.939	16.681
25	1722	0	ILE	842	4.598	34.576	15.516
25	1723	CB	ILE	842	6.304	35.673	18.167
	1724	CG2	ILE	842	7.024	34.482	17.547
	1725	CG1	ILE	842	7.295	36.803	18.451
	1726	CD1	ILE	842	8.262	36.508	19.591
00	1727	N	ALA	843	3.624	34.300	17.528
30	1728	CA	ALA	843	2.864	33.114	17.116
	1729	HN	ALA	843	3.529	34.639	18.464
	1730	C	ALA	843	1.852	33.364	16.013
	1731 1732	O CB	ALA	843	1.584	32.470	15.219
	1733		ALA	843	2.243	32.446	18.355
35	1734	CA CA	CYS CYS	844	1.272	34.560	15.966
		HN	CYS	844	0.265	34.833	14.952
	1735 1736	C	CYS	844	0.809	35.269 35.417	16.625
	1737	0	CYS	844	0.066	36.025	13.651 12.892
	1738	СВ	CYS	844	-0.847	35.704	15.569
40	1739	SG	CYS	844	-0.792	37.381	14.899
	1740	HG	CYS	844	-0.268	37.965	15.973
	1741	127	LYS	845			
	1742	CA	LYS	845	2.092	35.211 35.753	13.370
	1743	HN	LYS	845	2.660	34.683	14.001
45	1744	C	LYS	845	3.342	34.641	11.356
	1745	ō	LYS	845	3.279	34.579	10.126
	1746	СВ	LYS	845	3.711	36.852	12.523
	1747	CG	LYS	845	4.426	37.477	11.299
	1748	CD	LYS	845	5.761	38.158	11.612
50	1749	CE	LYS	845	6.910	37.264	11.126
	1750	NZ	LYS	845	7.238	37.604	9.730
	1751	HZ2	LYS	845	7.153	38.616	9.574
	1752	HZI	LYS	845	8.209	37.362	9.506
	L			1 - 1 -		-1.502	2.000

	1753	HZ3	T 370	0.45			
			LYS	845	6.621	37.115	9.113
	1754	N	ARG	846	3.975	33.764	12.123
	1755	CA	ARG	846	4.743	32.640	11.628
5	1756	HN	ARG	846	3.917	33.887	13.114
J	1757	C	ARG	846	4.039	31.621	10.739
	1758	0	ARG	846	3.938	31.802	9.526
	1759	CB	ARG	846	5.417	31.956	12.850
	1760	CG	ARG	846	6.967	31.902	12.795
	1761	CD	ARG	846	7.587	33.235	12.356
10	1762	NE	ARG	846	7.062	34.308	13.238
	1763	CZ	ARG	846	7.378	35.593	13.160
	1764	NH1	ARG	846	8.199	36.095	12.285
	1765	1HH1	ARG	846	8.584	35.395	11.650
	1766	2HH1	ARG	846	8.364	37.099	12.325
15	1767	NH2	ARG	846	6.834	36.391	14.008
	1768	1HH2	ARG	846	6.208	35.899	14.649
	1769	2HH2	ARG ·	846	7.074	37.379	13.956
	1770	HE	ARG	846	6.415	34.038	13.952
	1771	N	LYS	847	3.544	30.551	11.345
20	1772	CA	LYS	847	2.923	29.508	10.561
	1773	HN	LYS	847	3.601	30.466	12.339
	1774	С	LYS	847	3.910	28.361	10.659
	1775	0	LYS	847	4.792	28.190	9.811
	1776	CB	LYS	847	2.682	29.909	9.080
25	1777	CG	LYS	847	2.106	28.759	8.216
25	1778	CD	LYS	847	1.917	29.098	6.735
	1779	CE	LYS	847	1.412	27.855	5.992
	1780	NZ	LYS	847	1.065	28.219	4.607
	1781	HZ2	LYS	847	1.724	28.915	4.239
	1782	HZ1	LYS	847	1.127	27.409	3.982
30	1783	HZ3	LYS	847	0.136	28.589	4.582
ļ	1784	N	ASN	848	3.755	27.613	11.746
	1785	CA	ASN	848	4.563	26.452	12.119
	1786	HN	ASN	848	3.014	27.868	12.368
}	1787	<u>C</u>	ASN	848	4.597	26.516	13.654
35	1788	0	ASN	848	3.550	26.710	14.274
ļ	1789	CB	ASN	848	5.977	26.531	11.523
	1790	CG	ASN	848	6.207	25.526	10.393
	1791	OD1	ASN	848	7.251	24.867	10.338
}	1792	ND2	ASN	848	5.198	25.367	9.416
40	1793	1HD2	ASN	848	5.373	24.776	8.619
ŀ	1794 1795	2HD2 N	PRO	848	4.431	26.024	9.406
}					5.763	26.372	14.275
}	1796	CA C	PRO	849	5.831	26.436	15.736
ŀ	1797		PRO	849	7.207	26.150	16.311
45	1798	0	PRO	849	7.451	26.398	17.495
"	1799	CB	PRO	849	4.738	25.524	16.313
F	1800	CG	PRO PRO	849	4.725	24.323	15.354
	1801	CD N		849	4.966	24.963	13.985
}	1802	CA	THR THR	850	8.105	25.605	15.502
- F	1803	HN		850	9.441	25.356 25.372	16.017
50	1804 1805	C	THR THR	850 850	7.868 10.214	26.642	14.559
}	1806	0	THR		11.167		15.778
-	1807	CB	THR	850 850	10.126	26.958 24.154	16.493
L	100/	<u> </u>	1111	630	10.120	44.134	15.283

	1808	OG1	THR	850	10.482	24.519	13.955
	1809	HG1	THR	850	10.956	23.767	13.590
	1810	CG2	THR	850	9.273	22.877	15.118
5	1811	N	SER	851	9.787	27.400	14.773
-	1812	CA	SER	851	10.446	28.655	14.481
	1813	HN	SER	851	9.010	27.103	14.218
	1814	C	SER	851	9.822	29.736	15.357
	1815	0	SER	851	10.123	30.918	15.207
40	1816	СВ	SER	851	10.338	29.008	12.977
10	1817	OG	SER	851	8.993	29.270	12.561
	1818	HG	SER	851	8.491	28.460	12.686
	1819	N	CYS	852	8.965	29.326	16.289
	1820	CA	CYS	852	8.348	30.300	17.178
	1821	HN	CYS	852	8.746	28.354	16.378
15	1822	С	CYS	852	9.238	30.709	18.333
	1823	0	CYS	852	9.409	31.901	18.572
	1824	СВ	CYS	852	6.965	29.806	17.647
	1825	SG	CYS	852	5.666	30.398	16.540
	1826	HG	CYS	852	5.180	31.334	17.351
20	1827	N	SER	853	9.809	29.754	19.059
	1828	CA	SER	853	10.721	30.160	20.111
	1829	HN	SER	853	9.617	28.788	18.886
	1830	C	SER	853	11.947	30.684	19.428
	1831	0	SER	853	12.640	31.546	19.946
25	1832	CB	SER	853	11.052	28.960	21.034
23	1833	OG	SER	853	9.993	28.652	21.947
	1834	HG	SER	853	9.878	29.413	22.522
	1835	N	ARG	854	12.253	30.159	18.260
	1836	CA	ARG	854	13.429	30.673	17.628
	1837	HN	ARG	854	11.696	29.443	17.839
30	1838	С	ARG	854	13.229	32.139	17.268
	1839	0	ARG	854	14.183	32.906	17.281
	1840	CB	ARG	854	13.792	29.826	16.377
	1841	CG	ARG	854	15.162	30.165	15.733
	1842	CD	ARG	854	15.371	29.457	14.388
35	1843	NE	ARG	854	16.798	29.601	14.002
	1844	CZ	ARG	854	17.349	29.113	12.899
	1845	NH1	ARG	854	16.705	28.438	11.993
	1846	1HH1	ARG	854	15.716	28.318	12.211
	1847	2HH1	ARG	854	17.239	28.114	11.189
40	1848	NH2	ARG	854	18.605	29.324	12.720
	1849	1HH2	ARG	854	19.015	29.862	13.486
	1850	2HH2	ARG	854	19.036	28.950	11.876
	1851	HE	ARG	854	17.393	30.108	14.626
	1852	N	ARG	855	11.988	32,524	16.962
45	1853	CA	ARG	855	11.655	33.911	16.585
40	1854	HN	ARG	855	11.254	31.846	16.990
	1855	С	ARG	855	11.888	34.813	17.795
	1856	0	ARG	855	12.635	35.796	17.748
	1857	CB	ARG	855	10.184	33.966	16.157
	1858	CG	ARG	855	9.698	35.261	15.556
50	1859	CD	ARG	855	10.351	35.566	14.227
	1860	NE	ARG	855	9.768	36.777	13.671
	1861	CZ	ARG	855	10.332	37.527	12.738
	1862	NH1	ARG	855	11.508	37.098	12.207

				1000	11.053	37.643	11.499
	1863	1HH1	ARG	855	11.953	36.244	12.526
	1864	2HH1	ARG	855	11.913	38.655	12.360
	1865	NH2	ARG	855	9.731	39.221	11.648
_	1866	1HH2	ARG	855	10.147	38.930	12.797
5	1867	2HH2	ARG	855	8.869	37.064	14.019
	1868	HE	ARG	855	8.876	34.449	18.875
	1869	N	PHE	856	11.215	35.136	20.138
	1870	CA	PHE	856	11.305	33.655	18.811
	1871	HN	PHE	856	10.612	35.347	20.485
10	1872	C	PHE	856	12.763	36.471	20.731
	1873	0	PHE	856	13.213	34.278	21.208
	1874	CB	PHE	856	10.664	34.278	22.519
	1875	CG	PHE	856	10.553	36.188	22.618
	1876	CD1	PHE	856	9.941		23.842
15	1877	CE1	PHE	856	9.787	36.809 36.185	24.997
	1878	CZ	PHE	856	10.246	34.944	24.911
	1879	CE2	PHE	856	10.863	34.328	23.668
	1880	CD2	PHE	856	11.013	34.247	20.513
	1881	N	TYR	857	13,497		20.828
00	1882	CA	TYR	857	14.903	34.289	20.311
20	1883	HN	TYR	857	13.067	33.367 35.350	19.966
	1884	C	TYR	857	15.591	36.174	20.483
	1885	0	TYR	857	16.340	32.908	20.612
	1886	CB	TYR	857	15.511	32.859	20.832
	1887	CG	TYR	857	16.991	32.721	22.110
25	1888	CD1	TYR	857	17.532	32.720	22.307
	1889	CE1	TYR	857	18.909	32.857	21.210
	1890	CZ	TYR	857	19.746	32.882	21.399
	1891	OH	TYR	857	21.112		20.569
	1892	HH	TYR	857	21.529	32.623 32.991	19.936
30	1893	CE2	TYR	857	19.221	32.988	19.756
	1894	CD2	TYR	857	17.857	35.361	18.668
	1895	N	GLN	858	15.322	36.355	17.800
	1896	CA	GLN	858	15.949	34.689	18.283
	1897	HN	GLN	858	14.689	37.765	18.019
35	1898	C	GLN	858	15.404	38.739	18.044
55	1899	0	GLN	858	16.168	36.015	16.334
	1900	CB	GLN	858	15.752	34.612	15.954
	1901	CG	GLN	858	16.085	34.395	14.479
	1902	CD	GLN	858	15.869	34.153	14.025
	1903	OE1	GLN	858	14.743	34.493	13.651
40	1904	NE2	GLN	858	17.014	34.308	12.664
	1905	1HE2	GLN	858	16.916		14.051
	1906	2HE2	GLN	858	17.927	34.643	18.144
	1907	N	LEU	859	14.087	37.895	18.350
	1908	CA	LEU	859	13.550	39.228	18.097
45	1909	HN	LEU	859	13,484	37.099	19.635
	1910	C	LEU	859	14.160	39.797	19.626
	1911	0	LEU	859	14.722	40.892 39.207	18.390
	1912	CB	LEU	859	12.014		17.031
	1913	CG	LEU	859	11.357	38.916	17.129
50	1914	CD1	LEU	859	9.853	39.037	15.993
	1915	CD2	LEU	859	11.876	39.897	20.723
	1916	N	THR	860	14.098 14.656	39.033 39.500	21.990
		CA	THR	860			1 / 1 771/

	1918	HN	THR	860	13.667	38.132	20.673
	1919	C	THR	860	16.176	39.693	21.962
	1920	0	THR	860	16.754	40.268	22.890
5	1921	CB	THR	860	14.288	38.558	23.132
	1922	OG1	THR	860	14.757	37.228	22.968
	1923	HG1	THR	860	14.601	36.794	23.817
	1924	CG2	THR	860	12.779	38.552	23.335
	1925	N	LYS	861	16.830	39.216	20.907
10	1926	CA	LYS	861	18.270	39.397	20.817
10	1927	HN	LYS	861	16.336	38.737	20.182
	1928	С	LYS	861	18.456	40.826	20.335
	1929	0	LYS	861	19.325	41.553	20.810
	1930	CB	LYS	861	18.892	38.425	19.817
	1931	CG	LYS	861	20.364	38.109	20.110
15	1932	CD	LYS	861	20.502	37.119	21.279
	1933	CE	LYS	861	21.959	36.933	21.747
	1934	NZ	LYS	861	22.156	35.824	22.770
	1935	HZ1	LYS	861	21.493	35.952	23.548
•	1936	HZ2	LYS	861	21.989	34.911	22.324
20	1937	HZ3	LYS	861	23.092	35.856	23.121
	1938	N	LEU	862	17.603	41.223	19.396
	1939	CA	LEU	862	17.635	42.565	18.843
	1940	HN	LEU	862	16.918	40.577	19.059
	1941	C	LEU	862	17.397	43.581	19.962
25	1942	0	LEU	862	18.051	44.628	20.021
	1943	CB	LEU	862	16.553	42.714	17.782
	1944 1945	CD1	LEU	862 862	16.934	43.629	16.630
	1946	CD2	LEU	862	15.660 17.893	44.226	16.085
	1947	N N	LEU	863	16.452	43.267	20.842
30	1948	CA	LEU	863	16.140	44.140	21.963
	1949	HN	LEU	863	15.944	42.412	20.731
	1950	† c	LEU	863	17.379	44.403	22.790
	1951	o	LEU	863	17.776	45.549	22.950
	1952	CB	LEU	863	15.043	43.515	22.829
<i>35</i>	1953	CG	LEU	863	13.714	43.547	22.073
	1954	CD1	LEU	863	12.587	43.029	22.926
	1955	CD2	LEU	863	13.447	44.988	21.639
	1956	N	ASP	864	17.999	43.343	23.298
	1957	CA	ASP	864	19.198	43.467	24.125
40	1958	HN	ASP	864	17.634	42.432	23.108
40	1959	C	ASP	864	20.327	44.239	23.470
	1960	0	ASP	864	21.122	44.895	24.145
	1961	CB	ASP	864	19.733	42.092	24.495
	1962	CG	ASP	864	18.831	41.367	25.445
45	1963	OD1	ASP	864	17.986	42.034	26.080
45	1964	OD2	ASP	864	18.971	40.138	25.571
	1965	HD2	ASP	864	18.343	39.811	26.197
	1966	N	SER	865	20.400	44.148	22.152
	1967	CA	SER	865	21.458	44.813	21.411
	1968	HN	SER	865	19.714	43.614	21.657
50	1969	С	SER	865	21.136	46.275	21.164
	1970	0	SER	865	21.914	47.011	20.551
	1971	СВ	SER	865	21.676	44.093	20.087
	1972	OG	SER	865	21.198	44.768	18.923

						44.002	10.052
	1973	HG	SER	865	20.247	44.893	19.052 21.653
	1974	N	VAL	866	19.975	46.683	
	1975	CA	VAL	866	19.504	48.049	21.499
_	1976	HN	VAL	866	19.402	46.028	22.145
5	1977	С	VAL	866	20.218	48.908	22.537
	1978	0	VAL	866	20.382	50.115	22.363
	1979	CB	VAL	866	17.942	48.064	21.735
	1980	CG1	VAL	866	17.131	49.109	20.919
	1981	CG2	VAL	866	17.252	46.706	21.460
10	1982	N	GLN	867	20.636	48.265	23.626
	1983	CA	GLN	867	21.366	48.965	24.663
	1984	HN	GLN	867	20.445	47.289	23.728
	1985	С	GLN	867	22.676	49.372	24.018
	1986	ō	GLN	867	23.069	50.525	24.094
15	1987	СВ	GLN	867	21.611	48.048	25.882
10	1988	CG	GLN	867	20.397	47.844	26.848
	1989	CD	GLN	867	19.936	46.419	27.177
	1990	OE1	GLN	867	18.987	46.219	27.919
	1991	NE2	GLN	867	20.578	45.392	26.680
	1992	2HE2	GLN	867	21.402	45.627	26.124
20	1993	1HE2	GLN	867	20.246	44.480	27.000
	1994	N	PRO	868	23.343	48.454	23.333
	1995	CA	PRO	868	24.594	48.867	22.735
	1996	C	PRO	868	24.485	49.904	21.618
	1997	ō	PRO	868	25.405	50.714	21.471
25	1998	СВ	PRO	868	25.417	47.634	22.332
	1999	CG	PRO	868	24.369	46.674	21.747
	2000	CD	PRO	868	23.150	46.894	22.646
	2001	N	ILE	869	23.417	49.918	20.817
	2002	CA	ILE	869	23.396	50.978	19.804
30	2003	HN	ILE	869	22.679	49,248	20.903
	2004	C	ILE	869	23.025	52.308	20.464
	2005	0	ILE	869	23.534	53.352	20.062
	2006	СВ	ILE	869	22.493	50.676	18.539
	2007	CG1	ILE	869	21.636	49.374	18.647
35	2008	CG2	ILE	869	23.313	50.609	17.214
33	2009	CD1	ILE	869	20.519	49.215	17.595
	2010	N	ALA	870	22.176	52.274	21.495
	2011	CA	ALA	870	21.805	53.511	22.196
	2012	HN	ALA	870	21.790	51.400	21.791
	2013	C	ALA	870	23.037	54.118	22.876
40	2014	0	ALA	870	23.216	55.331	22.884
	2015	СВ	ALA	870	20.651	53.247	23.179
	2016	N	ARG	871	23.895	53.278	23.440
	2017	CA	ARG	871	25.100	53.794	24.070
	2018	HN	ARG	871	23.715	52.294	23.431
45	2019	С	ARG	871	25.856	54.646	23.041
	2020	0	ARG	871	26.083	55.831	23.258
	2021	CB	ARG	871	25.980	52.625	24.594
	2022	CG	ARG	871	27.191	53.058	25.463
	2023	CD	ARG	871	27.897	51.866	26.122
50	2024	NE	ARG	871	26.863	50.904	26.580
	2025	CZ	ARG	871	27.100	49.752	27.193
	2026	NH1	ARG	871	28.286	49.306	27.482
	2027	1HH1	ARG	871	29.033	49.937	27.192
		 					

	2028	2HH1	ARG	871	28.340	48.405	27.955
	2029	NH2	ARG	871	26.084	49.034	27.519
	2030	1HH2	ARG	871	25.203	49.473	27.247
-	2031	2HH2	ARG	871	26.259	48.147	27.987
5	2032	HE	ARG	871	25.907	51.146	26.412
	2033	N	GLU	872	26.408	53.950	21.931
	2034	CA	GLU	872	27.385	54.484	20.981
	2035	HN	GLU	872	26.260	52.944	21.910
	2036	С	GLU	872	26.849	55.815	20.337
10	2037	0	GLU	872	27.667	56.632	19.950
	2038	CB	GLU	872	27.726	53.433	19.901
	2039	CG	GLU	872	28.328	52.104	20.449
	2040	CD	GLU	872	28.409	51.032	19.362
	2041	OE1	GLU	872	29.430	50.652	18.829
15	2042	OE2	GLU	872	27.203	50.544	18.978
	2043	HE2	GLU	872	27.293	50.078	18.137
	2044	N	LEU	873	25.436	56.022	20.276
	2045	CA	LEU	873	24.724	57.200	19.760
	2046	HN	LEU	873	24.861	55.285	20.690
00	2047	C	LEU	873	24.595	58.270	20.894
20	2048	0	LEU	873	25.019	59.379	20.636
	2049	СВ	LEU	873	23.337	56.855	19.192
	2050	CG	LEU	873	23.378	55.882	17.985
	2051	CD1	LEU	873	22.002	55.231	17.841
	2052	CD2	LEU	873	23.780	56.573	16.663
25	2053	N	HIS	874	23.965	57.966	22.145
	2054	CA	HIS	874	24.158	58.786	23.367
	2055	HN	HIS	874	23.560	57.051	22.324
	2056	С	HIS	874	25.542	59.472	23.379
	2057	0	HIS	874	25.571	60.658	23.626
30	2058	СВ	HIS	874	24.234	58.102	24.741
	2059	CG	HIS	874	22.936	57.702	25.317
	2060	ND1	HIS	874	22.813	56.503	25.961
	2061	CE1	HIS	874	21.722	56.586	26.613
	2062	NE2	HIS	874	20.972	57.795	26.378
35	2063	CD2	HIS	874	21.766	58.465	25.455
	2064	HE2	HIS	874	20.081	58.130	26.741
	2065	N	GLN	875	26.721	58.681	23.357
	2066	CA	GLN	875	28.044	59.302	23.396
	2067	HN	GLN	875	26.630	57.688	23.284
40	2068	С	GLN	875	28.165	60.488	22.389
	2069	0	GLN	875	28.635	61.533	22.815
	2070	СВ	GLN	875	29.172	58.270	23.174
	2071	CG	GLN	875	29.403	57.239	24.328
	2072	CD	GLN	875	28.824	57.531	25.718
45	2073	OE1	GLN	875	28.948	56.733	26.633
45	2074	NE2	GLN	875	28.161	58.640	25.931
	2075	2HE2	GLN	875	28.033	59.231	25.108
	2076	1HE2	GLN	875	27.754	58.726	26.864
	2077	N	PHE	876	27.718	60.280	21.057
	2078	CA	PHE	876	27.841	61.462	20.165
50	2079	HN	PHE	876	26.885	59.685	20.995
•	2080	С	PHE	876	26.792	62.593	20.503
	2081	0	PHE	876	27.169	63.758	20.556
	2082	СВ	PHE	876	27.834	61.063	18.696

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	2083	CG	PHE	876	28.247	62.231	17.831
	2084	CD1	PHE	876	27.246	63.136	17.335
	2085	CE1	PHE	876	27.575	64.131	16.353
5	2086	CZ	PHE	876	28.931	64.264	15.911
5	2087	CE2	PHE	876	29.959	63.443	16.484
	2088	CD2	PHE	876	29.624	62.433	17.447
	2089	N	THR	877	25.428	62.231	20.747
	2090	CA	THR	877	24.359	63.113	21.226
	2091	HN	THR	877	25.102	61.272	20.752
10	2092	C	THR	877	24.977	64.063	22.321
	2093	0	THR	877	24.824	65.272	22.274
	2094	CB	THR	877	23.155	62.343	21.893
	2095	OG1	THR	877	22.571	61.260	21.154
	2096	HG1	THR	877	21.647	61.493	20.956
15	2097	CG2	THR	877	22.055	63.305	22.371
	2098	N	PHE	878	25.576	63.410	23.433
	2099	CA	PHE	878	25.950	64.048	24.711
	2100	HN	PHE	878	25.863	62.435	23.355
	2101	C	PHE	878	27.225	64.946	24.507
20	2102	0	PHE	878	27.176	66.082	24.911
	2103	CB	PHE	878	26.189	63.055	25.877
	2104	CG	PHE	878	24.941	62.370	26.424
	2105	CD1	PHE	878	23.710	62.202	25.690
	2106	CE1	PHE	878	22.579	61.526	26.255
05	2107	CZ	PHE	878	22.652	60.972	27.569
25	2108	CE2	PHE	878	23.846	61.156	28.333
	2109	CD2	PHE	878	24.980	61.840	27.762
	2110	N	ASP	879	28.404	64.415	23.941
	2111	CA	ASP	879	29.580	65.087	23.411
	2112	HN	ASP	879	28.357	63.418	23.880
30	2113	C	ASP	879	29.097	66.302	22.642
	2114	0	ASP	879	29.026	67.386	23.195
	2115	СВ	ASP	879	30.337	64.088	22.498
	2116	CG	ASP	879	31.786	64.445	22.138
	2117	OD1	ASP	879	32.533	63.682	21.542
35	2118	OD2	ASP	879	32.135	65.707	22.532
	2119	HD2	ASP	879	33.032	65.877	22.288
	2120	N .	LEU	880	28.746	66.177	21.254
	2121	CA	LEU	880	28.095	67.195	20.392
	2122	HN	LEU	880	28.531	65.227	20.984
40	2123	C	LEU	880	27.516	68.324	21.297
	2124	0	LEU	880	27.833	69.492	21.123
	2125	CB	LEU	880	26.987	66.542	19.521
	2126	CG	LEU	880	26.285	67.339	18.404
	2127	CD1	LEU	880	27.309	67.731	17.314
45	2128	CD2	LEU	880	25.111	66.489	17.844
45	2129	N	LEU	881	26.617	67.870	22.315
	2130	CA	LEU	881	25.882	68.810	23.169
	2131	HN	LEU	881	26.432	66.890	22.389
	2132	C	LEU	881	26.754	69.636	24.119
	2133	0	LEU	881	26.385	70.749	24.493
50	2134	CB	LEU	881	24.799	68.018	23.956
	2135	CG	LEU	881	23.904	68.799	24.955
	2136	CD1	LEU	881	22.656	69.333	24.239
	2137	CD2	LEU	881	23.483	67.949	26.165

	0120	137	T # 5	1 000	107.002	T 60 006	104.600
	2138	N	ILE	882	27.893	69.086	24.527
	2139	CA	ILE	882	28.793	69.797	25.426
	2140	HN	ILE	882	28.136	68.169	24.212
5	2141	C	ILE	882	29.999	70.348	24.666
	2142	0	ILE	882	31.141	70.250	25.129
	2143	СВ	ILE	882	29.229	68.835	26.606
	2144	CG1	ILE	882	28.050	68.094	27.312
	2145	CG2	ILE	882	30.069	69.563	27.700
10	2146	CD1	ILE	882	28.437	67.190	28.501
,,	2147	N	LYS	883	29.736	70.910	23.488
	2148	CA	LYS	883	30.771	71.515	22.651
	2149	HN	LYS	883	28.791	70.918	23.162
	2150	С	LYS	883	30.117	72.518	21.717
	2151	0	LYS	883	29.586	72.137	20.671
15	2152	CB	LYS	883	31.531	70.422	21.850
	2153	CG	LYS	883	32.746	70.970	21.061
	2154	CD	LYS	883	33.247	70.060	19.935
	2155	CE	LYS	883	34.398	70.755	19.197
	2156	NZ	LYS	883	34.996	69.818	18.229
20	2157	HZ2	LYS	883	34.272	69.230	17.800
	2158	HZ1	LYS	883	35.451	70.319	17.459
	2159	HZ3	LYS	883	35.667	69.241	18.695
	2160	N_	SER	884	28.420	72.393	21.414
	2161	CA	SER	884	27.396	72.888	20.489
25	2162	HN	SER	884	28.135	72.067	22.315
	2163	C	SER	884	27.610	74.331	20.042
	2164	0	SER	884	27.438	74.658	18.872
	2165	CB	SER	884	26.017	72.756	21.129
	2166	OG	SER	884	25.870	73.467	22.358
30	2167	HG	SER	884	24.943	73.377	22.616
50	2168	N	HIS	885	27.987	75.188	20.985
	2169	CA	HIS	885	28.234	76.608	20.719
	2170	HN C	HIS	885	28.107	74.850	21.918
	2172	0	HIS	885 885	29.414 29.555	76.858 77.954	19.764
0.5		СВ	HIS			77.340	19.228
35	2173 2174	CG	HIS	885 885	28.426 29.180	78.638	22.060
	2175	ND1	HIS	885	28.563	79.849	21.969 21.732
	2176	CE1	HIS	885	29.462	80.820	21.769
	2177	NE2	HIS	885	30.643	80.282	22.016
	2178	CD2	HIS	885	30.496	78.918	22.141
40	2179	HE2	HIS	885	31.505	80.783	22.098
	2180	N	MET	886	31.650	74.889	20.070
	2181	CA	MET	886	32.565	75.329	10.000
	2182	HN	MET	886	31.962	74.238	19.028 20.761
	2183	C	MET	886	31.840	74.738	17.822
45	2184	ō	MET	886	31.805	75.321	16.735
	2185	CB	MET	886	33.963	74.675	19.210
	2186	CG	MET	886	34.261	74.102	20.611
	2187	SD	MET	886	36.001	73.655	20.730
	2188	CE	MET	886	35.927	72.697	22.250
50	2189	N	VAL	887	31.241	73.571	18.051
	2190	CA	VAL	887	30.508	72.855	17.019
i	2191	HN	VAL	887	31.297	73.172	18.966
	2192	C	VAL	887	29.274	73.631	16.592
		<i>-</i>					

			1277	1007	28.923	73.650	15.414
	2193	0	VAL	887	30.115	71.415	17.537
	2194	CB	VAL	887	30.240	70.255	16.511
	2195	CG1	VAL	887	30.919	70.953	18.776
_	2196	CG2	VAL	887	28.604	74.242	17.558
5	2197	N	SER	888	27.445	75.073	17.258
	2198	CA	SER	888	28.899	74.133	18.507
	2199	HN	SER	888	26.109	74.426	16.874
	2200	C	SER	888	25.280	75.109	16.273
	2201		SER	888	27.808	76.071	16.151
10	2202	CB	SER	888	28.887	76.954	16.451
	2203	OG	SER	888	29.184	77.309	15.605
	2204	HG	SER	888	25.838	73.039	17.163
	2205	N	VAL	889	24.556	72.431	16.670
	2206	CA	VAL	889	26.322	72.541	17.906
15	2207	HN	VAL	889	23.593	72.412	17.909
	2208	C	VAL	889	23.913	71.900	18.962
	2209	0	VAL	889	24.621	71.056	15.955
	2210	CB_	VAL	889	25.677	71.023	14.826
	2211	CG1	VAL	889	24.864	69.889	16.914
20	2212	CG2	VAL	890	22.347	73.037	17.745
20	2213	N	ASP	890	21.379	73.348	18.812
	2214	CA	ASP	890	22.029	72.987	16.798
	2215	HN	ASP	890	20.246	72.324	19.082
	2216	C	ASP	890	19.542	71.921	18.159
	2217	0	ASP	890	20.820	74.764	18.514
25	2218	CB	ASP	890	21.278	75.896	19.445
	2219	CG	ASP	890	22.383	76.413	19.372
	2220	OD1	ASP	890	20.313	76.270	20.338
	2221	OD2	ASP	890	20.643	76.966	20.885
	2222	HD2	ASP	891	20.127	72.032	20.451
30	2223	N	PHE	891	19.184	71.088	21.009
	2224	CA	PHE	891	20.797	72.434	21.092
	2225	HN	PHE	891	17.936	71.983	21.374
	2226	<u> C</u>	PHE	891	18.086	73.118	21.814
	2227	0	PHE	891	19.814	70.282	22.175
35	2228	CB		891	21.021	69.477	21.682
	2229	CG	PHE PHE	891	20.987	68.025	21.698
	2230	CD1	PHE	891	22.129	67.235	21.275
	2231	CE1	PHE	891	23.323	67.884	20.817
	2232	CZ	PHE	891	23.373	69.314	20.772
40	2233	CE2	PHE	891	22.247	70.111	21.206
40	2234	CD2	PRO	892	16.645	71.447	21.085
	2235	N	PRO	892	15.369	72.021	21.537
	2236	CA	PRO	892	16.431	70.128	20.505
	2237	CD	PRO	892	15.213	71.856	23.072
	2238	<u>C</u>	PRO	892	15.924	71.125	23.735
45	2239	0	PRO	892	14.305	71.131	20.920
	2240	CB	PRO	892	14.995	69.761	20.823
	2241	CG	GLU	893	14.098	72.520	23.629
	2242	N	GLU	893	13.795	72.507	25.059
	2243	CA	GLU	893	13.417	72.885	22.994
50	2244	HN	GLU	893	13.842	71.099	25.612
	2245		GLU	893	14.651	70.779	26.492
	2246	0	GLU	893	12.399	73.087	25.305
	2247	CB	1 GLU				

	T 22.45	T 00	0777	1 000	110 250	1 74 722	
	2248	CG	GLU	893	12.359	74.589	25.235
	2249	CD	GLU	893	13.300	75.215	26.243
	2250	OE1	GLU	893	14.507	74.896	26.220
5	2251	OE2	GLU	893	12.832	76.021	27.067
	2252	HE2	GLU	893	13.523	76.332	27.631
	2253	N	MET	894	12.947	70.271	25.087
	2254	CA	MET	894	12.861	68.895	25.507
	2255	HN	MET	894	12.320	70.609	24.386
10	2256	C	MET	894	14.249	68.252	25.562
	2257	0	MET	894	14.870	68.271	26.618
	2258	CB	MET	894	11.912	68.116	24.584
		CG	MET	894	10.604	67.677	25.273
	2260	SD	MET	894	10.728	67.416	27.096
15	2261	CE N	MET MET	894	14.844	65.740	27.227
15	2263	CA		895		67.682	24.391
	2264	HN	MET	895	16.108	66.917	24.435
	2265	C	MET	895	14.463	67.895	23.478
	2266	10	MET MET	895 895	17.168	67.650	25.267
	2267	CB	MET	895		66.650	25.886
20	2268	CG	MET	895	16.757		23.073
	2269	SD	MET	895	16.747	65.699	22.172
	2270	CE	MET	895	18.397	66.112	
	2271	N	ALA	896	17.158	69.058	20.684
	2272	CA	ALA	896	18.176	69.798	25.976
25	2273	HN	ALA	896	16.441	69.553	24.759
	2274	C	ALA	896	18.197	69.481	27.480
	2275	10	ALA	896	19.277	69.320	28.049
	2276	CB	ALA	896	17.986	71.297	25.751
	2277	N	GLU	897	17.013	69.378	28.106
30	2278	CA	GLU	897	16.852	69.103	29.554
	2279	HN	GLU	897	16.185	69,496	27.559
	2280	С	GLU	897	17.169	67.641	29.921
	2281	ō	GLU	897	17.828	67.362	30.929
	2282	CB	GLU	897	15.399	69.460	30.000
35	2283	CG	GLU	897	15.155	69.773	31.529
	2284	CD	GLU	897	14.687	71.232	31.813
	2285	OE1	GLU	897	15.306	72.174	31.267
	2286	OE2	GLU	897	13.718	71.441	32.590
	2287	HE2	GLU	897	13.561	72.371	32.656
40	2288	N	ILE	898	16.693	66.718	29.088
	2289	CA	ILE	898	16.906	65.293	29.296
	2290	HN	ILE	898	16.168	67.015	28.290
	2291	С	ILE	898	18.372	64.971	29.082
	2292	0	ILE	898	18.963	64.230	29.866
45	2293	CB	ILE	898	16.065	64.484	28.325
45	2294	CG2	ILE	898	16.032	63.034	28.734
	2295	CG1	ILE	898	14.641	65.010	28.340
	2296	CD1	ILE	898	13.785	64.322	27.349
	2297	N	ILE	899	19.013	65.460	27.911
	2298	CA	ILE	899	20.391	65.025	27.815
50	2299	HN	ILE	899	18.613	66.102	27.232
	2300	C	ILE	899	21.065	65.586	29.109
	2301	0	ILE	899	21.557	64.777	29.867
	2302	СВ	ILB	899	21.118	65.405	26.543
							

					22.558	64.893	26.717
	2203	CG2	ILE	899	20.440	64.810	25.285
	2303	CG1	ILE	899		65.767	24.106
	2304	CD1	ILE	899	20.622	67.001	29.398
	2305	N _	SER	900	21.002	67.613	30.614
	2306	CA	SER	900	21.566	67.602	28.736
	2307		SER	900	20.553	66.795	31.884
	2308	HN	SER	900	21.374	66.672	32.706
	2309	C	SER	900	22.286		30.750
	2310	0	SER	900	20.953	69.029	30.493
	2311	CB	SER	900	19.545	69.053	29.578
	2312	OG	SER	900	19.415	68.789	32.061
	2313	HG	VAL	901	20.169	66.272	33,231
	2314	N	VAL	901	19.888	65.470	
	2315	CA		901	19.451	66.433	31.384
	2316	HN	VAL	901	20.678	64.169	33.202
	2317	C	VAL	901	21.380	63.839	34.153
	2318	0	VAL		18.336	65.184	33.317
	2319	CB	VAL	901	17.897	64.050	34.284
	2320	CG1	VAL	901	17.492	66.416	33.722
		CG2	VAL	901	20.582	63.445	32.093
	2321	N	GLN	902	21.263	62.164	31.955
	2322	CA	GLN	902	20.028	63.787	31.334
		HN	GLN	902		62.163	31.856
	2324	C	GLN	902	22.784	61.208	32.299
	2325	0	GLN	902	23.421	61.415	30.737
	2326		GLN	902	20.717		30.828
_	2327	CB	GLN	902	19.252	61.040	32.056
5	2328	CG	GLN	902	18.940	60.208	32.361
	2329	CD	GLN	902	19.638	59.237	32.969
	2330	OE1	GLN	902	18.007	60.708	
	2331	NE2		902	17.720	60.104	33.720
	2332	1HE2	GLN	902	17.531	61.588	32.810
30	2333	2HE2	GLN	903	23.371	63.214	31.288
	2334	N	VAL	903	24.819	63.244	31.093
	2335	CA	VAL		22.815	63.991	30.991
	2336	HN	VAL	903	25.674	62.568	32.174
	2337	C	VAL	903	26,442	61.655	31.866
	2338	0	VAL	903	25.318	64.719	30.822
35	2339	СВ	VAL	903	24,613	65,484	29.668
	2340	CG1	VAL	903	25,217	65.652	32.053
	2341	CG2	VAL	903		62.991	33.449
		N N	PRO	904	25.556	62.331	34.468
	2342	CA	PRO	904	26.383	63.995	34.066
40	2343	$\frac{CA}{CD}$	PRO	904	24.668	60.853	34.659
	2344	C	PRO	904	26.046	59.978	34.194
	2345	0	PRO	904	26.772	63.164	35.722
	2346		PRO	904	26.109		35.528
	2347	CB	PRO	904	24.691	63.591	35.323
	2348	CG	LYS	905	24.927	60.589	35.620
45	2349	N	LYS	905	24.462	59.233	
	2350	CA		905	24.371	61.358	35.638
	2351	HN	LYS	905	24.605	58.128	34.550
	2352	C	LYS	905	24.720	56.946	34.900
	2353	0	LYS	905	22.996	59.291	36.064
50	2354	CB	LYS		22.030	59.560	34.928
50	2355	CG	LYS	905	20.583	59.336	35.345
	2356	CD	LYS	905	20.083	60.442	36.262
	2357	CB	LYS	905	20.003		

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	2358	NZ	LYS	905	18.618	60.349	36.653
	2359	HZ1	LYS	905	18.227	61.297	36.749
	2360	HZ2	LYS	905	18.100	59.837	35.925
5	2361	HZ3	LYS	905	18.535	59.864	37.523
	2362	N	ILE	906	24.590	58.493	33.265
	2363	CA	ILE	906	24.699	57.512	32.172
	2364	HN	ILE	906	24.502	59.463	33.038
	2365	С	ILE	906	26.087	56.939	31.960
	2366	0	ILE	906	26.376	55.800	32.329
10	2367	CB	ILE	906	24.127	58.174	30.852
	2368	CG1	ILE	906	22.814	57.521	30.312
	2369	CG2	ILE	906	25.168	58.202	29.690
	2370	CD1	ILE	906	21.527	58.350	30.491
	2371	N	LEU	907	26.923	57.761	31.330
15	2372	CA	LEU	907	28.298	57.423	30.985
	2373	HN	LEU	907	26.586	58.668	31.076
	2374	С	LEU	907	28.968	56.365	31.867
	2375	0	LEU	907	29.557	55.412	31.351
	2376	CB	LEU	907	29.155	58.720	30.925
20	2377	CG	LEU	907	29.319	59.549	32.227
	2378	CD1	LEU	907	30.099	60.838	31.937
	2379	CD2	LEU	907	27.973	59.894	32.885
	2380	N	SER	908	28.866	56.524	33.185
	2381	CA	SER	908	29.473	55.585	34.132
25	2382	HN	SER	908	28.358	57.309	33.540
20	2383	C	SER	908	28.974	54.145	33.984
	2384	0	SER	908	29.703	53.261	33.522
	2385	CB	SER	908	29.242	56.123	35.566
	2386	OG	SER	908	28.881	57.509	35.589
00	2387	HG	SER	908	29.621	58.005	35.229
30	2388	N	GLY	909	27.727	53.925	34.405
	2389	CA	GLY	909	27.115	52.605	34.341
	2390	HN	GLY	909	27.198	54.688	34.776
	2391	C	GLY	909	26.426	52.237	35.647
	2392	0	GLY	909	26.387	51.071	36.044
35	2393	N CA	LYS	910	25.865	53.251	36.308
	2394	CA	LYS	910	25.182	53.106	37.593
	2395 2396	HN C	LYS	910	25.915	54.163	35.901
	2397	0	LYS	910	23.655 22.850	52.955	37.392
	2398	CB	LYS	910	25.508	53.294	38.269
40	2399	CG	LYS	910	26.794	54.360	38.450
	2400	CD	LYS	910	26.636	55.097 56.607	37.998 37.803
	2400	CE	LYS	910	27.995		27.122
	2402	NZ	LYS	910	27.817	57.214	37.429
	2403	HZ2	LYS	910	27.105	58.633 59.070	37.073 37.670
45	2404	HZ1	LYS	910	28.680	59.166	37.222
	2405	HZ3	LYS	910	27.542	58.704	36.114
i	2406	N	VAL	911	23.302	52.427	36.214
	2407	CA	VAL	911	21.929	52.172	35.734
ł	2408	HN	VAL	911	24.046	52.179	35.594
50	2409	C	VAL	911	21.828	50.671	35.394
	2410	0	VAL	911	22.809	50.084	34.932
ŀ	2411	CB	VAL	911	21.666	53.060	34.454
}	2412	CG1	VAL	911	21.087	54.480	34.706
L					~1.00,	21.700	34.700

				1-11	22.921	53.281	33.575
	2413	CG2	VAL	911	20.666	50.053	35.581
	2414	N	LYS	912	20.552	48.628	35.274
	2415	CA	LYS	912	19.877	50.558	35.931
		HN	LYS	912	19.777	48.267	34.014
	2416	C	LYS	912	18.544	48.228	34.010
	2417	Ö	LYS	912		47.873	36.448
	2418	CB	LYS	912	19.948	46.377	36.216
	2419	CG	LYS	912	19.772	45.841	37.339
	2420	CD	LYS	912	18.912	44.409	37.153
	2421	CE	LYS	912	18.472	43.918	38.231
	2422	NZ NZ	LYS	912	17.517	44.716	38.611
	2423		LYS	912	16.988		37.825
	2424	HZ1	LYS	912	16.862	43.235	38.965
	2425	HZ2	LYS	912	18.038	43.483	32.960
	2426	HZ3	PRO	913	20.528	47.980	31.674
;	2427	N	PRO	913	19.971	47.592	
	2428	CA		913	19.437	46.168	31.795
	2429	C	PRO	913	20.208	45.247	32.038
	2430	0	PRO	913	21.081	47.729	30.622
	2431	CB	PRO	913	22.370	47.474	31.418
	2432	CG	PRO	913	22.090	48.144	32.766
0	2433	CD	PRO		18.132	45.976	31.641
	2434	N	ILE	914	17.573	44.628	31.718
	2435	CA	ILE	914	17.529	46.756	31.472
	2436	HN	ILE	914	17.956	43.896	30.438
	2437	C	ILE	914	17.995	44,499	29.370
25	2438	0	ILE	914	16.003	44.733	31.889
.0		CB	ILE	914		45.812	32.915
	2439	CG1	ILE	914	15.530	43.373	32.279
	2440	CG2	ILE	914	15.345	45.901	33.144
	2441	CD1	ILE	914	14.007	42.605	30.527
	2442	N N	TYR	915	18.239	41.856	29.326
30	2443	CA	TYR	915	18.602	42.144	31.413
	2444	HN	TYR	915	18.204	40.570	29.208
	2445	C	TYR	915	17.790		30.218
	2446		TYR	915	17.364	40.025	29.342
	2447	0	TYR	915	20.110	41.472	29.160
35	2448	CB	TYR	915	21.114	42.616	28.948
55	2449	CG	TYR	915	22.470	42.349	29.198
	2450	CD1	TYR	915	20.670	43.942	
	2451	CD2		915	23.368	43.398	28.768
	2452	CE1	TYR	915	21.570	44.988	29.019
	2453	CE2	TYR	915	22.919	44.715	28.804
40	2454	CZ	TYR	915	23.803	45.741	28.625
	2455	OH	TYR	915	23.322	46.569	28.679
	2456	HH	TYR		17.547	40.099	27.984
	2457	N	PHE	916	16.801	38.847	27.812
	2458	CA	PHE	916	17.873	40.599	27.182
45	2459	HN	PHE	916	17.772	37.692	27.803
45	2460	C	PHE	916	17.483	36.618	28.320
	2461	0	PHE	916		38.831	26.509
		CB	PHE	916	16.012	39.658	26.558
	2462	CG	PHE	916	14.782	39.198	27.206
	2463	CDI	PHE	916	13.647		27.331
50	2464	CEI	PHE	916	12.534	40.005	26.807
	2465	CZ	PHE	916	12.552	41.283	26.155
	2466	i UZ	TILL	916	13.680	1 41 743	1 40.133

	2468	CD2	PHE	916	14.787	40.933	26.035
	2469	N N	HIS	917	18.929	37.930	27.198
	2470	CA	HIS	917	19.985	36.938	27.104
_	2471	HN	HIS	917	19.079	38.830	26.789
5	2472	C	HIS	917	21.218	37.571	27.755
	2472	0					
	2474	1 -	HIS	917	21.857	38.430	27.144
	2474	OXT	HIS	917	20.300	37.226	28.030
		CB	HIS	917		36.628	25.631
10	2476	CG	HIS	917	19.093	36.359	24.792
	2477	ND1	HIS	917	18.208	35.328	25.058
	2478	CE1	HIS	917	17.249	35.325	24.154
	2479	NE2	HIS	917	17.471	36.322	23.306
	2480	CD2	HIS	917	18.612	36.976	23.686
15	2481	HE2	HIS	917	16.900	36.556	22.520
	2482	NI	BIC_	1	13.946	58.376	15.059
	2483	C2	BIC	1	14.799	59.044	15.463
	2484	C3	BIC	1	15.841	59.881	15.953
	2485	C4	BIC	1	15.755	61.284	15.720
20	2486	C5	BIC	1	14.563	61.950	15.018
	2487	F6	BIC	1	13.473	61.888	15.833
	2488	F7	BIC	1	14.284	61.324	13.839
	2489	F8	BIC	1	14.827	63.259	14.743
	2490	C9	BIC	1	16.847	62.050	16.204
25	2491	C10	BIC	1	17.942	61.475	16.889
	2492	N11	BIC	1	18.989	62.358	17.280
	2493	C12	BIC	1	20.087	62.115	18.161
	2494	O13	BIC	1	20.203	61.135	18.877
	2495	C14	BIC	1	21.226	63.177	18.098
30	2496	C15	BIC	1	20.663	64.593	18.310
	2497	O16	BIC	1	22.231	62.983	19.086
	2498	C17	BIC	1	21.912	63.056	16.727
	2499	S18	BIC	1	22.550	61.414	16.461
	2500	O19	BIC	1	23.652	61.024	17.469
35	2501	O20	BIC	1	21.445	60.344	16.394
	2502	C21	BIC	1	23.155	61.723	14.866
	2503	C22	BIC	1	22.265	61.621	13.774
	2504	C23	BIC	1	22.764	61.780	12.465
	2505	C24	BIC	1	24.122	62.129	12.302
40	2506	F25	BIC	1	24.627	62.319	11.037
	2507	C26	BIC	1	24.991	62.301	13.395
	2508	C27	BIC	1	24.507	62.085	14.702
	2509	C28	BIC	1	17.982	60.076	17.127
	2510	C29	BIC	1	16.918	59.274	16.650
45	2511	H33	BIC	1	18.992	63.281	16.873
	2512	H39	BIC .	1	22.378	62.027	19.128

TABLE 5

ATOMIC COORDINATES OF PR IN COMPLEX WITH RWJ-60130 OBTAINED FROM HOMOLOGY MODELING OF THE CRYSTAL STRUCTURE COORDINATES OF $\mathsf{GR}\alpha$ IN COMPLEX WITH FP

STRUCTURE COORDINATES OF $\mathsf{GR}\alpha$ IN COMPLEX WITH FP

	1	N	GLN	682	-15.010	41.258	15.638
	2	HN1	GLN	682	-15.045	42.257	15.389
	3	HN2	GLN	682	-14.426	40.755	14.955
5	4	CA	GLN	682	-14.439	41.109	16.970
	5	С	GLN	682	-14.873	42.160	18.025
	6	0	GLN	682	-15.047	41.805	19.197
	7	CB	GLN	682	-12.914	41.005	16.866
	8	CG	GLN	682	-12.305	41.836	15.765
40	9	CD	GLN	682	-12.397	43.302	16.071
10	10	OE1	GLN	682	-12.505	43.688	17.231
	11	NE2	GLN_	682	-12.345	44.181	14.969
	12	1HE2	GLN	682	-12.352	45.177	15.141
	13	2HE2	GLN	682	-12.214	43.835	14.031
	14	HN3	GLN	682	-15.936	40.879	15.627
15	15	N	LEU	683	-15.080	43.419	17.608
	16	CA	LEU	683	-15.510	44.539	18.490
	17	HN	LEU_	683	-14.935	43.618	16.639
	18	С	LEU	683	-15.065	44.431	19.944
	19	0	LEU	683	-15.839	44.716	20.859
20	20	CB	LEU	683	-17.038	44.695	18.484
	21	CG	LEU	683	-17.799	45.363	17.338
	22	CD1	LEU	683	-17.383	44.762	16.011
	23	CD2	LEU	683	-19.300	45.185	17.568
	24	N	ILE	684	-13.816	44.047	20.146
25	25	CA	ILE	684	-13.270	43.859	21.478
	26	HN	ILE	684	-13.227	43.881	19.355
	27	C	ILE	684	-11.755	44.117	21.381
	28	0	ILE	684	-11.026	43.391	20.698
	29	CB	ILE	684	-13.587	42.385	21.960
30	30	CG1	ILE	684	-13.414	42.151	23.496
30	31	CG2	ILE	684	-12.746	41.308	21.208
	32	CD1	ILE	684	-14.014	40.842	24.049
	33	N	PRO	685	-11.269	45.167	22.062
	34	CA	PRO	685	-9.856	45.563	22.059
	35	CD	PRO	685	-11.987	45.849	23.154
35	36	C	PRO	685	-8.881	44.516	22.556
	37	0	PRO	685	-9.106	43.879	23.581
	38	СВ	PRO	685	-9.853	46.799	22.947
	39	CG	PRO	685	-10.854	46.430	23.987
	40	N	PRO	686	-7.801	44.333	21.810
40	41	CA	PRO	686	-6.772	43.402	22.220
	42	С	PRO	686	-5.691	44.331	22.701
	43	0	PRO	686	-5.692	45.515	22.363
	44	CB	PRO	686	-6.319	42.505	21.059
	45	CG	PRO	686	-6.674	43.324	19.808
45	46	CD	PRO	686	-8.000	43.988	20.187
	47	N	LEU	687	-4.769	43.820	23.494
	48	CA	LEU	687	-3.723	44.678	24.008
	49	HN	LEU	687	-4.792	42.851	23.738
	50	C	LEU	687	-2.861	45.295	22.900
50	51	0	LEU	687	-2.512	46.478	22.951
	52	CB	LEU	687	-2.879	43.883	24.978
	53	CG	LEU	687	-1.894	44.651	25.842
	54	CD1	LEU	687	-2.286	46.117	26.083
	55	CD2	LEU	687	-1.842	43.877	27.129

						44.494	21.898
			ILE	688	-2.521	44.494	20.786
	56	N	ILE	688	-1.721	43.540	21.909
	57	CA	ILE	688	-2.821	45.837	19.898
	58	HN	ILE	688	-2.621		19.056
	59	<u>c</u>	ILE	688	-2.148	46.601	20.000
	60	0		688	-1.130	43.737	19.307
	61	CB	ILE	688	-2.201	42.834	20.895
	62	CG1	ILE	688	-0.234	42.826	18.279
	63	CG2	ILE	688	-1.662	41.818	20.088
	64	CD1	ILE	689	-3.931	45.693	19.306
	65	N	ASN	689	-4.913	46.442	
	66	CA	ASN	689	-4.252	45.054	20.786
	67	HN	ASN	689	-4.859	47.910	19.668
	68	C	ASN		-4.889	48.806	18.829
	69	0	ASN	689	-6.326	45.855	19.591
		CB	ASN	689	-7.519	46.578	18.956
	70	CG	ASN	689	-8.064	46.169	17.942
	71	OD1	ASN	689		47.680	19.507
	72	ND2	ASN	689	-7.952 -8.644	48,160	18.925
	73		ASN	689		48.042	20.298
	74	1HD2	ASN	689	-7.420	48.126	20.963
0	75	2HD2	LEU	690	-4.799	49,439	21.528
-	76	N	LEU	690	-4.752	47.339	21.580
	77	CA	LEU	690	-4.784	50.002	21.308
	78	HN	LEU	690	-3.362	51,209	21.154
	79	C	LEU	690	-3.176		22.995
	80	0	LEU	690	-5.047	49.288	23.767
25	81	CB		690	-5.349	50.530	24.404
	82	CG	LEU	690	-6.690	50.364	24.805
	83	CD1	LEU	690	-4.307	50.719	21.292
	84	CD2	LEU	691	-2.374	49.119	
	85	N	LEU	691	-1,001	49.552	21.090
30	86	CA	LEU		-2.574	48.147	21.419
50	87	HN	LEU	691	-0.869	50.120	19.665
		C	LEU	691	-0.131	51.073	19.421
	88	0	LEU	691	-0.068	48.363	21.316
	89	CB	LEU	691	1.250	48.527	22.075
	90	CG	LEU	691	1.095	49.268	23.390
35	91	CD1	LEU	691	1.764	47.137	22.328
	92	CD2	LEU	691		49.544	18.727
	93	N N	MET	692	-1.606	50.045	17.376
	94	CA	MET	692	-1.547	48.770	18.954
	95		MET	692	-2.197	51.347	17.200
40	96	HN	MET	692	-2.330	52.246	16.524
40	97	C	MET	692	-1.845	48.959	16.384
	98	0	MET	692	-2.049		14.916
	99	CB	MET	692	-2.206	49.409	13.887
	100	CG		692	-2.628	47.993	12.317
	101	SD	MET	692	-2.810	48.850	17.797
45	102	CE	MET	693	-3.518	51.484	17.797
	103	N	SER	693	-4.251	52.738	
	104	CA	SER	693	-3.895	50.756	18.370
	105	HN	SER		-3.645	53.964	18.253
	105	C	SER	693	-4.043	55.082	17.931
		- 0	SER	693	-5.755	52.588	17.923
50	107	CB	SER	693	-6.254	51.270	17.670
	108 109	OG	SER	693	-6.23 4 -6.172	51.109	16.726
		100	SER	693	1-6.1/2	31.102	

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	111	N	ILE	694	-2.694	53.786	19.173
	112	CA	ILE	694	-2.079	54.944	19.831
	113	HN	ILE	694	-2.400	52.861	19.414
5	114	С	ILE	694	-0.672	55.231	19.325
-	115	0	ILE	694	0.069	56.001	19.939
	116	CB	ILE	694	-1.980	54.783	21.367
	117	CG2	ILE	694	-3.269	54.216	21.925
	118	CG1	ILE	694	-0.801	53.879	21.725
40	119	CD1_	ILE	694	-0.570	53.751	23.208
10	120	N	GLU	695	-0.301	54.606	18.214
	121	CA	GLU	695	1.020	54.801	17.640
	122	HN	GLU	695	-0.944	53.988	17.762
	123	С	GLU	695	1.093	56.227	17.144
	124	0	GLU	695	0.148	56.718	16.543
15	125	CB	GLU	695	1.238	53.825	16.483
	126	CG	GLU	695	2.643	53.807	15.879
	127	CD	GLU	695	3.760	53.831	16.920
	128	OE1	GLU	695	3.570	53.258	18.018
	129	OE2	GLU	695	4.832	54.413	16.631
20	130	HE2	GLU	695	5.431	54.352	17.360
	131	N	PRO	696	2.175	56.936	17.458
	132	CA	PRO	696	2.104	58.288	16.900
	133	CD	PRO	696	2.935	56.915	18.715
	134	C	PRO	696	2.205	58.244	15.379
25	135	0	PRO	696	2.532	57.209	14.789
	136	CB	PRO	696	3.278	59.025	17.552
	137	CG	PRO	696	3.904	58.034	18.527
	138	N	ASP	697	1.909	59.358	14.734
	139	CA	ASP	697	1.979	59.373	13.291
30	140	HN	ASP	697	1.640	60.179	15.237
	141	C 0	ASP	697	3.198	60.165	12.862
	143	CB	ASP ASP	697 697	3.578	61.123	13.536
	144	CG	ASP	697	0.666	59.986	12.735
	145	OD1	ASP	697	-0.395	61.433 62.158	13.143
35	146	OD2	ASP	697	0.984	61.806	12.506
55	147	HD2	ASP	697	0.761	62.700	14.298
	148	N	VAL	698	3.807	59.769	11.747
	149	CA	VAL	698	5.012	60.440	11.267
	150	HN	VAL	698	3.433	58.999	11.229
40	151	C	VAL	698	4.883	61.937	11.156
40	152	Ō	VAL	698	3.915	62.458	10.611
	153	СВ	VAL	698	5.466	59.926	9.887
	154	CG1	VAL	698	5.970	58.504	10.001
	155	CG2	VAL	698	4.322	60.031	8.885
	156	N	ILE	699	5.876	62.639	11.673
45	157	CA	ILE	699	5.854	64.080	11.590
	158	HN	ILE	699	6.640	62.174	12.120
	159	С	ILE	699	7.097	64.568	10.856
	160	0	ILE	699	8.225	64.160	11.169
	161	СВ	ILE	699	5.736	64.714	13.036
50	162	CG1	ILE	699	6.895	64.330	14.012
	163	CG2	ILE	699	4.383	64.379	13.735
	164	CD1	ILE	699	6.826	64.960	15.418
İ	165	N	TYR	700	6.859	65.427	9.863
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				T = 0.0	7.899	65.995	9.007
	166	CA	TYR	700	5.912	65.698	9.695
	167	HN	TYR	700	8.844	66.938	9.690
	168	C	TYR	700	8.559	67.480	10.759
	169	0	TYR	700		66.703	7.797
	170	CB	TYR	700	7.285	65.742	6.847
	171	CG	TYR	700	6.627	65.966	6.401
	172	CD1	TYR	700	5.329	65.026	5.623
	173	CE1	TYR	700	4.665	63.843	5.279
		CZ	TYR	700	5.300	62.900	4.526
	174	OH	TYR	700	4.635	62.049	4.659
	175	HH	TYR	700	5.069	63.600	5.697
	176	CE2	TYR	700	6.608	64.551	6.478
	177	CD2	TYR	700	7.262		9.023
	178	N N	ALA	701	9.971	67.152	9.539
	179	CA	ALA	701	11.029	67.995	8.133
5	180		ALA	701	10.094	66.714	9.185
	181	HN	ALA	701	10.957	69.476	9.806
	182	<u>c</u>	ALA	701	11.645	70.282	
	183	0	ALA	701	12.359	67.437	9.100
	184	CB	GLY	702	10.142	69.846	8.202
0	185	N	GLY	702	10.071	71.249	7.828
	186	CA	GLY	702	9.584	69.167	7.725
	187	HN	GLY	702	11.445	71.762	7.423
	188	C		702	11.889	72.816	7.879
	189	0	GLY	703	12.131	71.003	6.571
	190	N	HIS	703	13.464	71.376	6.102
25	191	CA	HIS	703	11.722	70.153	6.241
	192	HN	HIS	703	13.342	72.135	4.797
	193	C	HIS	703	12.377	71.977	4.040
	194	0	HIS	703	14.316	70.111	5.907
	195	CB	HIS	703	15.770	70.427	5.713
30	196	CG	HIS	703	16.648	70.863	6.702
	197	ND1	HIS		17.810	70.793	6.025
	198	CE1	HIS	703	17.774	70.374	4.731
	199	NE2	HIS	703	16.439	70.135	4.532
	200	CD2	HIS	703	18.550	70.259	4.064
35	201	HE2	HIS	703	14.333	72.973	4.559
33	202	N	ASP	704	14.410	73.739	3.341
	203	CA	ASP	704		73.080	5.244
	204	HN	ASP	704	15.053 15.539	73.046	2.609
	205	C	ASP	704		73.253	2.928
	206	0	ASP	704	16.712	75.179	3.628
40	207	CB	ASP	704	14.801	76.022	2.386
	208	CG	ASP	704	14.786	75.431	1.294
	209	OD1	ASP	704	14.680	77.259	2.497
	210	OD2	ASP	704	14.881	77.655	1.639
		HD2	ASP	704	14.858		1.658
45	211	N	ASN	705	15.184	72.196	0.886
	212	CA	ASN	705	16.169	71.457	1.467
	213	HN	ASN	705	14.212	72.058	-0.411
	214	C	ASN	705	16.414	72.208	-1.351
	215	- 6	ASN	705	17.014	71.684	
	216		ASN	705	15.643	70.020	0.600
50	217	CB	ASN	705	14.332	69.904	-0.185
	218	CG	ASN	705	14.308	69.649	-1.380
	219	OD1	ASN	705	13.204	70.107	0.440

221	70.157 70.406 73.449 74.325 73.797 74.995 75.846 75.390 76.547 77.181 74.960 74.651 75.267 73.976 74.218 73.480 76.516	-0.200 1.414 -0.435 -1.592 0.379 -1.581 -2.418 -1.546 -0.837 -0.907 -0.840 -0.605 -0.548 0.079 0.032
223 N THR 706 15.935 224 CA THR 706 16.057 225 HN THR 706 15.470 226 C THR 706 17.406 227 O THR 706 17.708 228 CB THR 706 14.910 229 OG1 THR 706 15.333 230 HG1 THR 706 15.333 231 CG2 THR 706 13.605 232 N LYS 707 18.223 233 CA LYS 707 19.517 234 HN LYS 707 17.947	73.449 74.325 73.797 74.995 75.846 75.390 76.547 77.181 74.960 74.651 75.267 73.976 74.218 73.480	-0.435 -1.592 0.379 -1.581 -2.418 -1.546 -0.837 -0.907 -0.840 -0.605 -0.548 0.079
5	74.325 73.797 74.995 75.846 75.390 76.547 77.181 74.960 74.651 75.267 73.976 74.218 73.480	-1.592 0.379 -1.581 -2.418 -1.546 -0.837 -0.907 -0.840 -0.605 -0.548 0.079
The color of the	73.797 74.995 75.846 75.390 76.547 77.181 74.960 74.651 75.267 73.976 74.218 73.480	0.379 -1.581 -2.418 -1.546 -0.837 -0.907 -0.840 -0.605 -0.548 0.079
10 226 C	74.995 75.846 75.390 76.547 77.181 74.960 74.651 75.267 73.976 74.218 73.480	-1.581 -2.418 -1.546 -0.837 -0.907 -0.840 -0.605 -0.548 0.079
10 227 O	75.846 75.390 76.547 77.181 74.960 74.651 75.267 73.976 74.218 73.480	-2.418 -1.546 -0.837 -0.907 -0.840 -0.605 -0.548 0.079
10 228 CB THR 706 14.910	75.390 76.547 77.181 74.960 74.651 75.267 73.976 74.218 73.480	-1.546 -0.837 -0.907 -0.840 -0.605 -0.548 0.079
10	76.547 77.181 74.960 74.651 75.267 73.976 74.218 73.480	-0.837 -0.907 -0.840 -0.605 -0.548 0.079
230 HG1 THR 706 14.613 231 CG2 THR 706 13.605 232 N LYS 707 18.223 233 CA LYS 707 19.517 234 HN LYS 707 17.947	77.181 74.960 74.651 75.267 73.976 74.218 73.480	-0.907 -0.840 -0.605 -0.548 0.079
231 CG2 THR 706 13.605 232 N LYS 707 18.223 233 CA LYS 707 19.517 234 HN LYS 707 17.947	74.960 74.651 75.267 73.976 74.218 73.480	-0.840 -0.605 -0.548 0.079
232 N LYS 707 18.223 233 CA LYS 707 19.517 234 HN LYS 707 17.947	74.651 75.267 73.976 74.218 73.480	-0.605 -0.548 0.079
233 CA LYS 707 19.517 234 HN LYS 707 17.947	75.267 73.976 74.218 73.480	-0.548 0.079
234 HN LYS 707 17.947	73.976 74.218 73.480	0.079
	74.218 73.480	
	73.480	
236 O LYS 707 20.052		0.945
237 CB LYS 707 19.445	1 /0.310	0.374
238 CG LYS 707 18.097	77.274	0.280
239 CD LYS 707 18.015	78.548	1.126
20 240 CE LYS 707 16.663	79.230	0.883
241 NZ LYS 707 16.507	80.357	1.819
242 HZ2 LYS 707 17.405	80.833	1.966
243 HZ1 LYS 707 15.867	81.066	1.446
244 HZ3 LYS 707 16.158	80.019	2.693
25 245 N PRO 708 21.688	74.161	-0.473
246 CA PRO 708 22.654	73.163	-0.016
247 CD PRO 708 22.365	75.246	-1.206
248 C PRO 708 22.661	72.720	1.398
249 O PRO 708 22.222	73.405	2.316
250 CB PRO 708 24.018	73.697	-0.465
30 251 CG PRO 708 23.812	75.102	-0.777
252 N ASP 709 23.175	71.516	1.550
253 CA ASP 709 23.249	70.949	2.849
254 HN ASP 709 23.511	71.006	0.757
255 C ASP 709 24.550	71.260	3.463
35 256 O ASP 709 25.441	71.872	2.877
257 CB ASP 709 23.091	69.450	2.784
258 CG ASP 709 21.834	69.063	2.108
259 OD1 ASP 709 20.895	69.889	2.139
260 OD2 ASP 709 21.777	67.951	1.553
40 261 HD2 ASP 709 20.924	67.836	1.164
262 N THR 710 24.636	70.819	4.690
263 CA THR 710 25.823	70.973	5.447
264 HN THR 710 23.847	70.365	5.104
265 C THR 710 25.383	70.258	6.675
45 266 O THR 710 24.204	70.267	7.041
267 CB THR 710 26.132	72.475	5.761
268 OG1 THR 710 25.356	72.923	6.865
269 HG1 THR 710 25.645	73.822	7.048
270 CG2 THR 710 25.824	73.487	4.637
50 271 N SER 711 26.329	69.578	7.289
2/2 CA SER /11 25.985	68.820	8.444
273 HN SER 711 27.270	69.593	6.950
274 C SER 711 25.348	69.652	9.408
275 O SER 711 24.169	69.484	9.541

				711	27.252	68.144	9.023
	276	CB	SER	711	28.080	67.556	8.013
	277	OG	SER	711	27.569	66.859	7.593
	278	HG	SER	711	26.114	70.494	10.112
5	279	N	SER	712	25.527	71.392	11.074
,	280	CA	SER	712	27.104	70.500	9.969
	281	HN	SER	712	24.166	71.500	10.449
	282	С	SER	712	23.511	70.508	10.391
	283	0	SER	712	26.267	72.753	11.066
	284	CB	SER	712	27.583	72.674	11.625
0	285	OG	SER	712	27.489	72.421	12.547
	286	HG	SER	712	23.678	72.598	9.944
	287	N	SER	713	22.339	72.472	9.371
	288	CA	SER	713	24.182	73.462	9.948
	289	HN	SER	713	21.406	71.259	9.586
5	290	С	SER	713	20.256	71.418	9.959
	291	0	SER	713	22,505	72,804	7.867
	292	CB	SER	713	21,363	73,468	7.314
	293	OG	SER	713	20.620	72.862	7.377
	294	HG	SER	713	21.874	70.055	9.313
20	295	N	LEU	714	21.017	68.898	9.427
	296	CA	LEU	714	22.826	69.943	9.027
	297	HN	LEU	714	20.938	68.217	10.741
	298	C	LEU	714	19.956	67.556	11.097
	299	0	LEU	714	21.502	67.918	8.321
25	300	CB	LEU	714	21.248	68.304	6.839
25	301	CG	LEU	714	21.363	67.062	5.943
	302	CD1	LEU	714	19.880	68.972	6.625
	303	CD2	LEU	715	22.058	68.261	11.408
	304	N	LEU	715	22.089	67.687	12.697
	305	CA	LEU	715	22.873	68.690	11.016
30	306	HN	LEU	715	21.204	68.642	13.356
	307	C	LEU	715	20.386	68.325	14.216
	308	0	LEU	715	23.540	67.807	13.243
	309	CB	LEU	715	24.610	66.823	12.697
	310	CG	LEU	715	25.926	66.993	13.467
35	311	CD1	LEU	715	24.157	65.355	12.764
	312	CD2	LEU	716	21.348	69.874	12.942
	313	N	THR	716	20.571	70.736	13.707
	314	CA	THR	716	21.934	70.157	12.182
	315	HN	THR	716	19.114	70.479	13.542
40	316	C	THR	716	18.437	70.227	14.534
	317	0	THR	716	20.967	72.126	13.506
	318	CB	THR	716	21.793	72.724	14.509
	319	OG1	THR	716	22.011	73.607	14.181
	320	HG1	THR	716	19.768	72.979	13.458
45	321	CG2	THR	717	18.638	70.483	12.305
10	322	N	SER	717	17.243	70.208	12.067
	323	CA	SER	717	19.248	70.677	11.536
	324	HN	SER	717	16.872	68.910	12.817
	325	<u>C</u>	SER	717	15.856	68.912	13.493
	326	0	SER	717	16.926	70.103	10.554
50	327	CB	SER	717	17.601	69.011	9.919
	328	OG	SER	717	18.545	69.178	9.987
	329	HG	SER	718	17.691	67.844	12.756
	330	N	LEU				

	331	CA	LEU	718	17.371	66.544	13.424
	332	HN	LEU	718	18.546	67.924	12.244
	333	С	LEU	718	17.026	66.582	14.903
5	334	0	LEU	718	16.107	65.898	15.360
3	335	СВ	LEU	718	18.454	65.464	13.111
	336	CG	LEU	718	17.916	64.771	11.843
	337	CD1	LEU	718	16.946	65.767	11.273
	338	CD2	LEU	718	18.930	64.423	10.767
	339	N	ASN	719	17.745	67.412	15.634
10	340	CA	ASN	719	17.523	67.628	17.058
	341	HN	ASN	719	18.481	67.921	15.188
		C					
	342		ASN	719	16.166	68.279	17.320
	343	0	ASN	719	15.458	67.918	18.260
15	344	CB	ASN	719	18.614	68.525	17.580
15	345	CG	ASN	719	19.895	67.790	17.829
	346	OD1	ASN	719	20.167	66.736	17.265
	347	ND2	ASN	719	20.913	68.674	18.216
	348	1HD2	ASN	719	21.861	68.327	18.261
	349	2HD2	ASN	719	20.709	69.592	18.580
20	350	N_	GLN	720	15.824	69.277	16.515
	351	CA	GLN	720	14.531	69.918	16.671
	352	HN	GLN_	720	16.455	69.586	15.803
	353	С	GLN	720	13.553	68.764	16.493
	354	0	GLN	720	12.674	68.521	17.327
25	355	СВ	GLN	720	14.336	70.984	15.571
25	356	CG	GLN	720	14.185	72.462	16.060
	357	CD	GLN	720	15.330	73.109	16.849
	358	OE1	GLN	720	15.113	73.748	17.867
	359	NE2	GLN	720	16.562	73.003	16.420
	360	2HE2	GLN	720	16.667	72.516	15.528
30	361	1HE2	GLN	720	17.255	73.517	16.966
	362	N	LEU	721	13.738	68.029	15.402
	363	CA	LEU	721	12.865	66.914	15.121
	364	HN	LEU	721	14.483	68.250	14.773
	365	C	LEU	721	12.721	65.969	16.297
35	366	ō	LEU	721	11.628	65.467	16.561
	367	СВ	LEU	721	13.353	66.111	13.921
	368	CG	LEU	721	12.281	65.040	13.743
	369	CD1	LEU	721	10.943	65.750	13.669
	370	CD2	LEU	721	12.512	64.192	12.523
	371	N N	GLY	722	13.828	65.713	
40	372	CA	GLY	722	13.811		16.988
	373	HN	GLY	722		64.809	18.123
		C			14.687	66.151	16.721
	374		GLY	722	12.951	65.353	19.242
	375	0	GLY	722	12.220	64.609	19.904
45	376	N	GLU	723	13.057	66.663	19.443
	377	CA	GLU	723	12.278	67.325	20.462
	378	HN	GLU	723	13.687	67.198	18.879
	379	C	GLU	723	10.824	67.093	20.146
	380	0	GLU	723	10.057	66.625	20.979
50	381	СВ	GLU	723	12.612	68.843	20.496
50	382	CG	GLU	723	12.287	69.677	19.213
	383	CD	GLU	723	12.698	71.151	19.181
	384	OE1	GLU	723	12.514	71.873	18.210
	385	OE2	GLU	723	13.285	71.582	20.332

				1 702	13.514	72.495	20.248
	386	HE2	GLU	723	10.411	67.381	18.930
	387	N	ARG	724	9.016	67.165	18.680
	388	CA	ARG	724	11.031	67.728	18.226
	389	HN	ARG	724	8.576	65.706	18.864
	390	C	ARG	724	7.454	65.462	19.302
	391	0	ARG	724	8.675	67.723	17.311
	392	CB	ARG	724	9.113	69.186	17.218
	393	CG	ARG	724		69.724	15.849
	393	CD	ARG	724	8.843	69.334	15.445
		NE	ARG	724	7.501	68.779	14.275
	395	CZ	ARG	724	7.222	68.495	13,340
	396	NH1	ARG	724	8.173	68.079	12.463
	397	1HH1	ARG	724	7.915	68.701	13.519
	398	2HH1	ARG	724	9.132	68.492	13.989
	399	NH2	ARG	724	5.922	68.079	13.109
	400	1HH2	ARG	724	5.691		14.659
	401	2HH2	ARG	724	5.210	68.697	16.085
	402		ARG	724	6.750	69.494	18.588
	403	HE	GLN	725	9.468	64.745	18.716
	404	N	GLN	725	9.152	63.311	18.284
	405	CA	GLN	725	10.383	65.011	20.124
	406	HN	GLN	725	9.183	62.733	
	407	C	GLN	725	8.499	61.746	20.406
	408	0	GLN	725	10.104	62.471	17.867
	409	CB		725	9.763	62.367	16.396
	410	CG	GLN	725	10.923	61.811	15.594
	411	CD	GLN	725	10.753	61.361	14.460
	412	OE1	GLN	725	12.140	61.680	16.282
	413	NE2	GLN	725	12.859	61.134	15.843
	414	1HE2	GLN	725	12.241	61.966	17.241
	415	2HE2	GLN	726	10.009	63.314	20.993
)	416	N	LEU	726	10.114	62.841	22.369
	417	CA	LEU	726	10.568	64.088	20.697
	418	HN	LEU		8.899	63.352	23.142
	419	C	LEU	726	8.473	62.756	24.139
	420	0	LEU	726	11.436	63.328	23.029
5	421	CB	LEU	726	11.755	62.846	24.470
	422	CG	LEU	726	11.921	61.320	24.492
	423	CD1	LEU	726	13.011	63.512	25.055
	424	CD2	LEU	726	8.336	64.448	22.642
	425	N	LEU	727	7.145	65.049	23.218
	426	CA	LEU	727	8.749	64.876	21.837
10	427	HN	LEU	727		64.151	22.835
		C	LEU	727	5.975	63.912	23.641
	428	- lö	LEU	727	5.085	66,496	22.689
	429	CB	LEU	727	6.932	67.654	23.405
	430	CG	LEU	727	7.678		22.465
45	431	CD1	LEU	727	7.808	68.860	24.711
-	432	$\frac{ CD1 }{ CD2 }$	LEU	727	6.990	68.086	21.616
	433		SER	728	5.988	63.628	21.198
	434	N CA	SER	728	4.923	62.724	20.983
	435	CA	SER	728	6.728	63.855	
	436	HN	SER	728	5.107	61.377	21.913
50	437	C		728	4.165	60.573	22.006
	438	0	SER	728	4.957	62.561	19.658
	439	CB	SER	728	6.142	61.904	19.194
	440	OG	SER	120			

	441	HG	SER	728	6.889	62.462	19.424
	442	N	VAL	729	6.328	61.159	22.422
	443	CA	VAL	729	6.726	59.930	23.143
5	444	HN	VAL	729	7.016	61.876	22.307
	445	С	VAL	729	6.098	59.865	24.535
	446	0	VAL	729	5.860	58.789	25.096
	447	СВ	VAL	729	8.302	59.869	23.233
	448	CG1	VAL	729	8.899	58.734	24.111
10	449	CG2	VAL	729	9.004	59.734	21.860
10	450	N	VAL	730	5.853	61.042	25.092
	451	CA	VAL	730	5.240	61.166	26.387
	452	HN	VAL	730	6.103	61.873	24.594
	453	С	VAL	730	3.724	60.950	26.214
	454	0	VAL	730	3.127	60.223	27.013
15	455	CB	VAL	730	5.571	62.543	26.984
	456	CG1	VAL	730	4.977	62.676	28.383
	457	CG2	VAL	730	7.094	62,724	27.016
	458	N	LYS	731	3.089	61.547	25.190
	459	CA	LYS	731	1.644	61.294	25.014
20	460	HN	LYS	731	3.584	62.147	24.561
	461	C	LYS	731	1.536	59.802	24.651
	462	0	LYS	731	0.566	59.132	25.009
	463	СВ	LYS	731	0.963	62.138	23.883
	464	CG	LYS	731	0.856	63.702	24.059
25	465	CD	LYS	731	-0.247	64,447	23.158
	466	CE	LYS	731	-0.072	64.305	21.606
	467	NZ	LYS	731	-0.903	65.223	20,724
	468	HZ1	LYS	731	-0.504	66.173	20.744
	469	HZ2	LYS	731	-0.896	64.870	19.757
30	470	HZ3	LYS	731	-1.844	65.249	21.061
00	471	N	TRP	732	2.523	59.265	23.943
	472	CA	TRP	732	2.427	57.855	23.605
	473	HN	TRP	732	3.307	59.813	23.652
	474	C	TRP	732	2.531	57.001	24.873
0.5	475	0	TRP	732	1.647	56.190	25.144
35	476	CB	TRP	732	3.514	57.461	22.599
	477	CG	TRP	732	3.692	55.982	22.458
	478	CD1	TRP	732	2.865	55.102	21.832
	479	NE1	TRP	732	3.387	53.831	21.906
	480	CE2	TRP	732	4.576	53.879	22.585
40	481	CD2	TRP	732	4.778	55.221	22.976
	482	HEI	TRP	732	2.967	53.007	21.526
	483	CE3	TRP	732	5.938	55.547	23.688
	484	CZ3	TRP	732	6.813	54.537	24.037
	485	CH2	TRP	732	6.583	53.207	23.640
45	486	CZ2	TRP	732	5.459	52.858	22.937
	487	N	SER	733	3.594	57.202	25.646
	488	CA	SER	733	3.823	56.439	26.880
	489	HN	SER	733	4.261	57.897	25.377
	490	С	SER	733	2.603	56.421	27.797
50	491	0	SER	733	2.173	55.353	28.240
	492	CB	SER	733	5.072	57.002	27.604
	493	OG	SER	733	4.850	58.298	28.171
	494	HG	SER	733	4.662	58.901	27.446
	495	N	LYS	734	2.056	57.602	28.074

	496	CA	LYS	734	0.877	57.749	28.915
	497	HN	LYS	734	2.473	58.425	27.688
	498	C	LYS	734	-0.310	56.892	28.435
5	499	0	LYS	734	-1.087	56.394	29.246
	500	CB	LYS	734	0.487	59.228	28.972
	501	CG	LYS	734	1.491	60.104	29.739
	502	CD	LYS	734	1.325	61.613	29.489
	503	CE	LYS	734	-0.138	62.049	29.374
10	504	NZ NZ	LYS	734	-0.392	63.445	29.911
	505	HZ1	LYS	734	0.444	64.028	29.762
	506	HZ2	LYS	734	-1.194	63.863	29.418
	507	HZ3	LYS	734	-0.593	63.395	30.890
	508	N	SER	735	-0.446	56.695	27.130
15	509	CA	SER	735	-1.555	55.887	26.617
15	510	HN	SER	735	0.211	57.099	26.494
	511	С	SER	735	-1.320	54.381	26.706
	512	0	SER	735	-2.236	53.585	26.468
	513	CB	SER	735	-1.872	56.330	25.167
	514	OG	SER	735	-0.870	55.921	24.229
20	515	HG	SER	735	-0.051	56.360	24.473
	516	N	LEU	736	-0.098	53.982	27.036
	517	CA	LEU	736	0.201	52.564	27.138
	518	HN	LEU	736	0.618	54.658	27.214
	519	C	LEU	736	-0.492	51.986	28.360
25	520	0	LEU	736	-0.279	52.425	29.492
	521	CB	LEU	736	1.737	52.337	27.211
	522	CG	LEU	736	2.577	52.603	25.932
	523	CD1	LEU	736	4.063	52.733	26.294
	524	CD2	LEU	736	2.398	51.510	24.866
30	525	N_	PRO	737	-1.364	51.004	28.133
00	526	CA	PRO	737	-2.117	50.324	29.181
	_527	CD	PRO	737	-1.813	50.558	26.805
	528	C	PRO	737	-1.207	49.971	30.340
	529	0	PRO	737	-0.257	49.205	30.179
	530	CB	PRO	737	-2.634	49.094	28.460
<i>35</i>	531	CG	PRO	737	-2.974	49.632	27.153
	532	N	GLY	738	-1.488	50.541	31.504
	533	CA	GLY	738	-0.686	50.263	32.676
	534	HN	GLY	738	-2.263	51.169	31.573
	535	С	GLY	738	0.524	51.152	32.913
40	536	0	GLY	738	1.221	50.970	33.900
	537	N	PHE	739	0.796	52.120	32.039
	538	CA	PHE	739	1.968	52.963	32.256
	539	HN	PHE	739	0.206	52.267	31.245
	540	С	PHE	739	1.713	54.100	33.242
45	541	0	PHE	739	2.584	54.419	34.053
	542	CB	PHE	739	2.475	53.554	30.937
	543	CG	PHE	739	3.713	54.395	31.096
	544	CD1	PHE	739	4.959	53.797	31.287
	545	CE1	PHE	739	6.098	54.575	31.517
50	546	CZ	PHE	739	5.992	55.961	31.555
50	547	CE2	PHE	739	4.751	56.569	31.359
	548	CD2	PHE	739	3.623	55.785	31.127
	549	N	ARG	740	0.528	54.705	33.164
	550	CA	ARG	740	0.151	55.833	34.029

	551	HN	ARG	740	-0.132	54.378	32.488
	552	С	ARG	740	0.051	55.468	35.498
	553	0	ARG	740	0.347	56.277	36.381
5	554	СВ	ARG	740	-1.196	56.436	33.600
	555	CG	ARG	740	-1.600	57.692	34.347
	556	CD	ARG	740	-2.959	58.220	33.899
	557	NE	ARG	740	-3.349	59.432	34.619
	558	CZ	ARG	740	-4.486	60.105	34.429
10	559	NH1	ARG	740	-5.500	59.734	33.612
10	560	1HH1	ARG	740	-6.319	60.308	33.542
	561	2HH1	ARG	740	-5.429	58.896	33.081
	562	NH2	ARG	740	-4.647	61.253	35.141
	563	1HH2	ARG	740	-5.492	61.780	35.040
	564	2HH2	ARG	740	-3.926	61.556	35.761
15	565	HE	ARG	740	-2.715	59.784	35.307
	566	N	ASN	741	-0.380	54.242	35.752
	567	CA	ASN	741	-0.544	53.777	37.110
	568	HN	ASN	741	-0.595	53.628	34.993
	569	C	ASN	741	0.765	53.516	37.822
20	570	0	ASN	741	0.778	53.044	38.950
	571	CB	ASN	741	-1.436	52.542	37.106
	572	CG	ASN	741	-2.805	52.837	36.517
	573	OD1	ASN	741	-3.261	52.166	35.586
	574	ND2	ASN	741	-3.556	53.863	37.133
25	575	1HD2	ASN	741	-4.490	54.048	36.802
	576	2HD2	ASN	741	-3.174	54.391	37.903
	577	N	LEU	742	1.882	53.801	37.176
	578	CA	LEU	742	3.131	53.615	37.881
	579	HN	LEU	742	1.864	54.134	36.233
30	580	C	LEU	742	3.372	54.966	38.511
	581	0	LEU	742	2.731	55.960	38.163
	582	СВ	LEU	742	4.285	53.273	36.943
	583	CG	LEU	742	4.343	51.909	36.258
	584	CD1	LEU	742	4.962	52.123	34.901
35	585	CD2	LEU	742	5.151	50.896	37.058
33	586	N	HIS	743	4.309	55.000	39.441
	587	CA	HIS	743	4.627	56.232	40.110
	588	HN	HIS	743	4.799	54.162	39.683
	589	C	HIS	743	5.054	57.283	39.094
40	590 591	O	HIS	743	5.888	57.008	38.239
40		CB	HIS	743	5.742	55.981	41.108
	592	CG	HIS	743	5.813	57.008	42.187
	593	ND1	HIS	743	6.381	58.249	42.000
	594	CEI	HIS	743	6.253	58.959	43.105
	596	NE2 HE2	HIS	743 743	5.621 5.383	58.221	44.003
45						58.518	44.960
	597 598	CD2 N	HIS ILE	743 744	5.333 4.482	56.999 58.476	43.455
1	599	CA .	ILE	744	4.813		39.192
	600	HN	ILE	744	3.799	59.579 58.625	38.294
}							39.907
50	601	<u>C</u>	ILE ILE	744	6.313 6.792	59.875	38.306
}	602	CB	ILE	744	3.959	60.726 60.842	37.559
	604				3.695		38.722
-	605	CG1 CG2	ILE	744 744	4.582	61.869 61.612	37.574
į	003		ILE	/	7.302	01.012	39.927

	606	CD1	ILE	744	2.243	61.944	37.059
	607	N	ASP	745	7.044	59.181	39.173
	608	CA	ASP	745	8.488	59.358	39.290
_	609	HN	ASP	745	6.590	58.516	39.764
5	610	С	ASP	745	9.214	58.319	38.448
	611	ō	ASP	745	10.326	58.563	37.974
	612	СВ	ASP	745	8.916	59.232	40.757
	613	CG	ASP	745	9.276	60.572	41.382
	614	OD1	ASP	745	8.646	61.590	41.021
10	615	OD2	ASP	745	10.184	60.599	42.245
	616	HD2	ASP	745	10.305	61.486	42.548
	617	N	ASP	746	8.597	57.155	38.283
	618	CA	ASP	746	9.175	56.089	37.469
	619	HN	ASP	746	7.714	57.004	38.728
15	620	C	ASP	746	8.833	56.439	36.039
	621	Ö	ASP	746	9.643	56.265	35.127
	622	СВ	ASP	746	8.558	54.740	37.817
	623	CG	ASP	746	8.720	54.394	39.271
	624	OD1	ASP	746	9.723	54.839	39.871
	625	OD2	ASP	746	7.853	53.670	39.809
20	626	HD2	ASP	746	8.076	53.533	40.717
	627	N	GLN	747	7.603	56.923	35.872
	628	CA	GLN	747	7.092	57.359	34.588
	629	HN	GLN	747	7.005	56.988	36.671
	630	C	GLN	747	8.132	58.302	34.013
25	631	Ö	GLN	747	8.317	58.385	32.802
	632	СВ	GLN	747	5.757	58.103	34.767
	633	CG	GLN	747	4.525	57.205	34.669
	634	CD	GLN	747	3.203	57.950	34.838
	635	OE1	GLN	747	2.880	58.872	34.083
30	636	NE2	GLN	747	2.575	57.795	36.072
	637	1HE2	GLN	747	1.680	58.234	36.220
	638	2HE2	GLN	747	2.839	57.042	36.695
	639	N	ILE	748	8.829	59.003	34.899
	640	CA	ILE	748	9.852	59.943	34.473
<i>35</i>	641	HN	ILE	748	8.647	58.882	35.875
	642	С	ILE	748	11.220	59.333	34.340
	643	0	ILE	748	12.079	59.902	33.666
	644	CB	ILE	748	9.852	61.182	35.458
	645	CG1	ILE	748	8.996	62.397	34.977
40	646	CG2	ILE	748	11.288	61.698	35.781
70	647	CD1	ILE	748	9.230	63.724	35.728
	648	N	THR	749	11.455	58.200	34.992
	649	CA	THR	749	12.771	57.598	34.869
	650	HN	THR	749	10.745	57.772	35.552
	651	С	THR	749	12.803	56.821	33.566
45	652	0	THR	749	13.748	56.931	32.777
	653	CB	THR	749	13.094	56.634	36.027
	654	OG1	THR	749	12.430	56.896	37.254
	655	HG1	THR	749	12.611	56.151	37.839
	656	CG2	THR	749	14.573	56.755	36.400
50	657	N	LEU	750	11.745	56.053	33.341
	658	CA	LEU	750	11.639	55.250	32.143
	659	HN	LEU	750	11.005	56.030	34.013
	660	С	LEU	750	11.834	56.098	30.863

	661	0	LEU	750	12.645	55.741	30.008
	662	CB	LEU	750	10.300	54.486	32.171
	663	CG	LEU	750	10.163	53.478	33.338
5	664	CD1	LEU	750	8.820	52.765	33.259
	665	CD2	LEU	750	11.295	52.451	33.306
	666	N	ILE	751	11.143	57.233	30.745
	667	CA	ILE	751	11.298	58.090	29.570
	668	HN	ILE	751	10.510	57.502	31.470
10	669	C	ILE	751	12.635	58.751	29.471
	670	0	ILE	751	13.027	59.243	28.416
	671	CB	ILE	751	10.118	59.145	29.580
	672	CG1	ILE	751	8.725	58.569	29.167
	673	CG2	ILE	751	10.412	60.390	28.686
15	674	CD1	ILE	751	7.530	59.534	29.306
15	675	N	GLN	752	13.337	58.801	30.584
	676	CA	GLN	752	14.626	59.444	30.567
	677	HN	GLN	752	12.981	58.399	31.428
	678	C	GLN	752	15.720	58.460	30.267
	679	0	GLN	752	16.740	58.801	29.672
20	680	CB	GLN	752	14.864	60.136	31.890
	681	CG	GLN	752	14.349	61.550	31.885
	682	CD	GLN	752	14.080	62.051	33.272
	683	OE1	GLN	752	14.762	61.667	34.231
	684	NE2	GLN	752	12.982	62.864	33.554
25	685	1HE2	GLN	752	12.838	63.166	34.506
	686	2HE2 N	GLN	752	12.311	63.088	32.846
	688	CA	TYR TYR	753 753	15.499	57.221	30.677
	689	HN	TYR	753	16.473 14.654	56.184	30.422 31.165
	690	c	TYR	753	16.332	55.637	29.012
30	691	lö	TYR	753	17.282	55.096	28.463
	692	CB	TYR	753	16.270	55.032	31.377
	693	CG	TYR	753	16.891	55.184	32.734
	694	CD1	TYR	753	16.859	56.394	33.424
	695	CE1	TYR	753	17.361	56.485	34.721
<i>35</i>	696	CZ	TYR	753	17.891	55.346	35.321
	697	OH	TYR	753	18.389	55.465	36.601
	698	НН	TYR	753	19.130	54.856	36.698
	699	CE2	TYR	753	17.930	54.150	34.650
	700	CD2	TYR	753	17.437	54.076	33.369
40	701	N	SER	754	15.157	55.784	28.406
	702	CA	SER	754	14.983	55.203	27.088
	703	HN	SER	754	14.412	56.282	28.849
	704	<u>C</u>	SER	754	14.524	56.053	25.911
	705	0	SER	754	14.159	55.506	24.878
45	706	CB	SER	754	14.067	53.978	27.206
	707	OG	SER	754	12.749	54.286	27.635
	708	HG	SER	754	12.366	53.459	27.955
	709	N	TRP	755	14.556	57.371	26.019
	710	CA	TRP	755	14.089	58.170	24.891
50	711	HN	TRP	755	14.891	57.809	26.853
	712	C	TRP	755	14.860	57.907	23.575
	713	0	TRP	755	14.270	57.970	22.492
	714	CB	TRP	755	14.082	59.679	25.243
	715	CG	TRP	755	15.425	60.318	25.318

				1 ===	16 207	60.264	26.362
	716	CD1	TRP	755	16.307	60.846	26.005
	717	NE1	TRP	755	17.499	61.298	24.713
	718	CE2	TRP	755	17.406	60.984	24.251
		CD2	TRP	755	16.107	60.928	26.592
	719	HE1	TRP	755	18.305	61.347	22.945
	720	CE3	TRP	755	15.747	61.997	22.145
	721	CZ3	TRP	755	16.687	62.289	22.635
	722	CH2	TRP	755	17.976		23.912
	723	CZ2	TRP	755	18.350	61.949	23.653
	724	N N	MET	756	16.154	57.583	22.436
	725		MET	756	16.939	57.351	24.549
	726	CA	MET	756	16.590	57.497	21.840
	727	HN	MET	756	16.665	55.975	20.620
	728		MET	756	16.599	55.804	
	729	0	MET	756	18.437	57.489	22.727
	730	CB		756	19.322	57.374	21.487
	731	CG	MET	756	19.295	58.819	20.443
	732	SD	MET	756	20.458	59.745	21.299
	733	CE	MET	757	16.525	54.998	22.724
	734	N	SER	757	16.219	53.640	22.332
)	735	CA	SER	757	16.636	55.206	23.696
,	736	HN	SER		14.879	53.727	21.599
	737	C	SER	757	14.704	53.143	20.535
	738	0	SER	757	16.131	52.775	23.583
	739	CB	SER	757	17.395	52.602	24.175
	740	OG	SER	757	17.229	52.241	25.055
5	741	HG	SER	757		54,491	22.162
	742	N	LEU	758	13.941	54.685	21.544
	743	CA	LEU	758	12.628	54.944	23.031
	744	HN	LEU	758	14.141	55.412	20.187
		C	LEU	758	12.713	55.016	19.208
30	745	Ö	LEU	758	12.055	55.508	22,468
50	746	CB	LEU	758	11.729		23.674
	747	CG	LEU	758	11.119	54.808	24.452
	748	CD1	LEU	758	10.281	55.784	23.205
	749		LEU	758	10.279	53.654	20.156
	750	CD2	MET	759	13.511	56.479	18.966
35	751	N	MET	759	13.702	57.297	
	752	CA	MET	759	14.001	56.731	20.990
	753	HN	MET	759	14.433	56.546	17.852
	754	C	MET	759	14.021	56.589	16.690
	755	0		759	14.447	58.591	19.331
40	756	CB	MET	759	13.553	59.646	19.984
70	757	CG	MET	759	14.425	61.220	20.263
	758	SD	MET	759	13.139	62.315	21.053
	759	CE	MET	760	15.514	55.854	18.209
	760	N	VAL		16.279	55.089	17.224
	761	CA	VAL	760	15.807	55.857	19.165
45	762	HN	VAL	760	15.451	53.923	16.702
	763	C	VAL	760	15.347	53.742	15.490
	764	0	VAL	760		54.577	17.860
	765	CB	VAL	760	17.632	53.476	18.950
		CG1	VAL	760	17.508	54.017	16.827
50	766	CG2	VAL	760	18.639	53.138	17.595
50	767	N N	PHE	761	14.847		17.125
	768 769	CA	PHE	761	14.062	52.008 53.324	18.573
	1.740	1 UA	1 1 1 2 2	761	14.933	1 53 374	1 10.2/3

	C	10	·	T-22	140.040	T-2-112	1
	771	<u>C</u>	PHE	761	13.040	52.442	16.091
	772	0	PHE	761	12.930	51.819	15.041
	773	CB	PHE	761	13.341	51.305	18.259
5	774	CG	PHE	761	12.974	49.889	17.946
	775	CD1	PHE	761	13.965	48.983	17.586
	776.	CE1	PHE	761	13.653	47.672	17.293
	777	CZ	PHE	761	12.321	47.252	17.340
	778	CE2	PHE	761	11.312	48.151	17.694
10	779	CD2	PHE	761	11.644	49.464	17.986
	780	N	GLY	762	12.287	53.501	16.375
	781	CA	GLY	762	11.305	53.994	15.417
	782	HN	GLY	762	12.396	53.964	17.254
	783	C	GLY	762	11.969	54.319	14.068
15	784	0	GLY	762	11.510	53.828	13.038
75	785	N	LEU	763	13.028	55.129	14.052
	786	CA	LEU	763	13.708	55.432	12.787
	787	HN	LEU	763	13.359	55.533	14.905
	788	C	LEU	763	14.084	54.093	12.138
	789	0	LEU	763	13.863	53.883	10.944
20	790	CB	LEU	763	14.968	56.282	13.031
	791	CG	LEU	763	16.092	56.607	12.014
	792 793	CD1 CD2	LEU	763	15.854	57.869	11.161
			LEU	763	17.329	56.845	12.863
	794 795	N CA	GLY	764 764	14.643	53.181	12.926
25	796	HN	GLY	764	14.999 14.813	51.900	12.361
	797	C	GLY	764	13.834	51,459	13.892
	798	lö –	GLY	764	13.961	51.256	11.509
	799	N	TRP	765	12.676	51.353	12.134
	800	CA	TRP	765	11.460	50.940	11.462
30	801	HN	TRP	765	12.637	51.565	13.110
	802	C	TRP	765	11.085	51.734	10.187
	803	0	TRP	765	10.868	51.159	9.134
	804	CB	TRP	765	10.334	50.995	12,476
	805	CG	TRP	765	9.056	50.606	11.930
<i>35</i>	806	CD1	TRP	765	8.037	51.435	11.565
	807	NE1	TRP	765	6.972	50.695	11.112
	808	CE2	TRP	765	7.299	49.365	11.173
	809	CD2	TRP	765	8.609	49.276	11.699
	810	HEI	TRP	765	6.100	51.066	10.791
40	811	CE3	TRP	765	9.194	48.009	11.852
	812	CZ3	TRP	765	8.448	46.879	11.513
	813	CH2	TRP	765	7.139	47.004	11.001
	814	CZ2	TRP	765	6.547	48.234	10.834
	815	N	ARG	766	10.993	53.047	10.288
45	816	CA	ARG	766	10.647	53.869	9.138
	817	HN	ARG	766	11.164	53.485	11.171
	818	С	ARG	766	11.567	53.630	7.941
	819	0	ARG	766	11.138	53.702	6.787
	820	СВ	ARG	766	10.709	55.349	9.519
50	821	CG	ARG	766	9.605	55.799	10.434
	822	CD	ARG	766	9.469	57.293	10.363
	823	NE	ARG	766	10.615	57.981	10.950
	824	CZ	ARG	766	10.942	57.921	12.243
	825	NH1	ARG	766	10.223	57.241	13.179

	826	1HH1	ARG	766	10.522	57.249	14.133
	827	2HH1	ARG	766	9.402	56.748	12.898
	828	NH2	ARG	766	12.050	58.599	12.645
5	829	1HH2	ARG	766	12.330	58.592	13.604
3	830	2HH2	ARG	766	12.572	59.116	11.966
	831	HE	ARG	766	11.190	58.532	10.346
	832	N	SER	767	12.833	53.352	8.234
	833	CA	SER	767	13.858	53.113	7.230
	834	HN	SER	767	13.095	53.305	9.198
10	835	C	SER	767	13.671	51.814	6.491
	836	ō	SER	767	13.787	51.732	5.269
	837	CB	SER	767	15.220	53.082	7.901
	838	OG	SER	767	15.599	54.311	8.521
	839	HG	SER	767	16.377	54.104	9.055
15	840	N	TYR	768	13.406	50.789	7.273
	841	CA	TYR	768	13.218	49.465	6.764
	842	HN	TYR	768	13.335	50.941	8.259
	843	C	TYR	768	11.985	49.344	5.896
	844	ō	TYR	768	11.951	48.557	4.958
20	845	СВ	TYR	768	13.133	48.529	7.960
	846	CG	TYR	768	12.233	47.343	7.789
	847	CD1	TYR	768	12.484	46.385	6.810
	848	CEI	TYR	768	11.714	45.239	6.715
	849	CZ	TYR	768	10.673	45.040	7.611
05	850	OH	TYR	768	9.912	43.894	7.529
25	851	НН	TYR	768	9.463	43.774	8.376
	852	CE2	TYR	768	10.399	45.989	8.590
	853	CD2	TYR	768	11.177	47.133	8.670
	854	N	LYS	769	10.970	50.138	6.171
	855	CA	LYS	769	9.756	49.993	5.397
30	856	HN	LYS	769	11.037	50.823	6.897
	857	С	LYS	769	9.638	50.815	4.144
	858	0	LYS	769	8.932	50.439	3.209
	859	CB	LYS	769	8.566	50.268	6.357
	860	CG	LYS	769	8.565	49.361	7.613
35	861	CD	LYS	769	7.176	48.937	8.100
	862	CE	LYS	769	7.046	47.412	7.991
	863	NZ	LYS	769	5.686	47.067	7.542
	864	HZ2	LYS	769	5.346	47.752	6.857
	865	HZ1	LYS	769	5.669	46.157	7.069
40	866	HZ3	LYS	769	5.070	47.045	8.330
	867	N	HIS	770	10.348	51.932	4.147
	868	CA	HIS	770	10.323	52.902	3.073
	869	HN	HIS	770	10.934	52.116	4.936
	870	C	HIS	770	11.406	52.732	2.021
45	871	0	HIS	770	11.350	53.354	0.962
	872	CB	HIS	770	10.420	54.294	3.720
	873	CG	HIS	770	9.805	55.363	2.866
	874	ND1	HIS	770	9.981	56.736	3.026
	875	CE1	HIS	770	9.222	57.185	2.008
50	876	NE2	HIS	770	8.584	56.268	1.231
50	877	CD2	HIS	770	8.969	55.080	1.795
	878	HE2	HIS	770	7.968	56.421	0.419
	879	N	VAL	771	12.404 13.502	51.906 51.711	2.311 1.378
	880	CA	VAL	771	13.302	21./11	1.376

	881	HN	VAL	771	12.401	51.414	3.181
	882	С	VAL	771	14.375	50.537	1.784
	883	0	VAL	771	15.610	50.602	1.730
5	884	CB	VAL	771	14.356	53.036	1.270
	885	CG1_	VAL	771	14.529	53.853	2.580
	886	CG2	VAL	771	15.790	52.816	0.733
	887	N	SER	772	13.702	49.482	2.233
	888	CA	SER	772	14.314	48.218	2.620
	889	HN	SER	772	12.708	49.561	2.310
10	890	С	SER	772	15.612	48.239	3.458
	891	0	SER	772	16.410	47.298	3.378
	892	CB	SER	772	14.528	47.410	1.335
	893	OG	SER	772	13.975	47.893	0.103
	894	HG	SER	772	14.283	47.293	-0.588
15	895	N	GLY	773	15.798	49.283	4.266
	896	CA	GLY	773	16.989	49.450	5.119
	897	HN	GLY	773	15.092	49.990	4.295
	898	С	GLY	773	18.206	49.933	4.318
	899	0	GLY	773	19.350	49.548	4.604
20	900	N	GLN	774	17.949	50.786	3.330
	901	CA	GLN	774	18.986	51.346	2.466
	902	HN	GLN	774	17.000	51.058	3.171
	903	С	GLN	774	19.341	52.784	2.844
	904	0	GLN	774	20.516	53.158	2.902
25	905	CB	GLN	774	18.484	51.265	1.008
23	906	CG	GLN	774	18.381	49.831	0.391
	907	CD	GLN	774	19.507	49.326	-0.520
	908	OE1	GLN	774	19.482	48.199	-0.988
	909	NE2	GLN	774	20.528	50.100	-0.787
	910	2HE2	GLN	774	20.522	51.002	-0.309
30	911	1HE2	GLN	774	21.264	49.665	-1.347
	912	N	MET	775	18.294	53.567	3.089
	913	CA	MET	775	18.370	54.983	3.462
	914	HN	MET	775	17.384	53.158	3.015
	915	C	MET	775	17.939	55.180	4.938
35	916	0	MET	775	17.228	54.341	5.487
	917	CB	MET	775	17.442	55.779	2.503
	918	CG	MET	775	18.095	56.282	1.197
	919	SD	MET	775	19.266	55.057	0.589
	920	CE	MET	775	20.099	56.071	-0.639
40	921	N	LEU	776	18.401	56.252	5.592
	922	CA	LEU	776	17.987	56.552	6.973
	923	HN	LEU	776	19.044	56.864	5.132
	924	<u>C</u>	LEU	776	16.867	57.558	6.762
	925	0	LEU	776	17.090	58.616	6.182
45	926	СВ	LEU	776	19.116	57.191	7.807
	927	CG	LEU	776	20.065	56.240	8.555
	928	CD1	LEU	776	20.964	57.020	9.506
	929	CD2	LEU	776	19.243	55.216	9.333
	930	N	TYR	777	15.670	57.231	7.238
50	931	CA	TYR	777	14.513	58.088	6.999
50	932	HN	TYR	777	15.561	56.388	7.766
	933	C	TYR	777	13.906	58.809	8.186
	934	0	TYR	777	12.846	58.426	8.682
	935	CB	TYR	777	13.390	57.253	6.318

				1	13.796	56.417	5.100
	936	CG	TYR	777	13.972	57.016	3.849
	937	CD1	TYR	777	14.003	55.041	5.240
	938	CD2	TYR	777	14.357	56.247	2.753
	939	CE1	TYR	777	14.387	54.274	4.144
	940	CE2	TYR	777	14.563	54.878	2.901
	941	CZ	TYR	777	14.943	54.128	1.825
	942	OH	TYR	777	15.041	53.217	2.109
	943	HH	TYR	777	14.541	59.887	8.604
	944	N	PHE	778	14.068	60.646	9.741
	945	CA	PHE	778	15.367	60.186	8.125
	946	HN	PHE	778	12.603	61.090	9.692
	947	C	PHE	778	11.859	60.829	10.642
	948	0	PHE	778	15.020	61.807	9.972
	949	CB	PHE	778	16.386	61.318	10.325
	950	CG	PHE	778	17.224	60.778	9.351
	951	CD1	PHE	778	18.446	60.198	9.699
	952	CE1	PHE	778	18.886	60.261	11.009
	953	CZ	PHE	778	18.061	60.811	11.987
	954	CE2	PHE	778	16.845	61.390	11.630
)	955	CD2	PHE	779	12.191	61.735	8.605
,	956	N	ALA	779	10.803	62.195	8.413
	957	CA	ALA	779	12.856	61.919	7.881
	958	HN	ALA	779	10.591	62.160	6.899
	959	C	ALA	779	11.186	62.970	6.216
_	960	0	ALA	779	10.644	63.625	8.933
5	961	CB	ALA	780	9.756	61.236	6.359
	962	N	PRO PRO	780	9.579	61.215	4.895
	963	CA	PRO	780	8.903	60.205	6.984
	964	CD	PRO	780	9.892	62.462	4.031
_	965	<u> </u>	PRO	780	10.012	62.338	2.812
30	966	0	PRO	780	8.151	60.692	4.748
	967	CB	PRO	780	8.154	59.579	5.772
	968	CG	ASP	781	10.023	63.635	4.660
	969	N	ASP	781	10.403	64.883	3.987
	970	CA	ASP	781	9.853	63.663	5.645
35	971	HN	ASP	781	11.908	65.110	4.248
	972	C 0	ASP	781	12.416	66.219	4.071
	973	CB	ASP	781	9.547	66.079	4.513
	974	CG	ASP	781	10.321	67.074	5.442 6.007
	975	OD1	ASP	781	11.387	66.743	5.632
40	976	OD2	ASP	781	9.831	68.214	6.208
	977	HD2	ASP	781	10.395	68.707	4.686
	978	N N	LEU	782	12.622	64.067	4.963
	979	CA	LEU	782	14.066	64.183	4.903
	980	HN	LEU	782	12.166	63.188	5.221
45	981	C	LEU	782	14.766	62.853	6.362
	982	0	LEU	782	14.845	62.374	6.149
	983	CB	LEU	782	14.356	65.126	6.400
	984	CG	LEU	782	15.833	65.518	7.567
	985	CD1	LEU	782	15.922	66.482	6.705
50	986	CD2	LEU	782	16.696	64.304	4.134
30	987	N N	ILE	783	15.304	62.307	4.107
	988	CA	ILE	783	16.033	61.049	3.270
	989 990	HN	ILE	783	15.199	62.799	3.270

	991	C	ILE	783	17.515	61.321	3.918
	992	0	ILE	783	17.910	62.236	3.195
	993	CB	ILE	783	15.594	60.191	2.921
5	994	CG2	ILE	783	16.348	58.883	2.912
3	995	CG1	ILE	783	14.084	59.984	2.973
	996	CD1	ILE	783	13.580	58.911	2.035
	997	N	LEU	784	18.352	60.533	4.567
	998	CA	LEU	784	19.752	60.743	4.372
	999	HN	LEU	784	18.017	59.814	5.176
10	1000	C	LEU	784	20.207	59.721	3.381
	1001	ŏ	LEU	784	20.504	58.575	3.718
	1002	CB	LEU	784	20.567	60.640	5.692
	1003	CG	LEU	784	20.745	61.925	6.544
15	1004	CD1	LEU	784	21.240	61.561	7.951
13	1005	CD2	LEU	784	21.709	62.936	5.901
	1006	N	ASN	785	20.172	60.171	2.136
	1007	CA	ASN	785	20.583	59.440	0.952
	1008	HN	ASN	785	19.831	61.101	1.999
	1009		ASN	785	22.105	59.406	0.993
20	1010	0	ASN	785	22.741	59.804	1.982
	1011	CB	ASN_	785	20.158	60.228	-0.266
	1012	CG	ASN	785	20.463	61.686	-0.088
	1013	OD1	ASN	785	21.246	62.041	0.802
	1014	ND2	ASN	785	19.835	62.588	-0.969
25	1015	1HD2	ASN	785	20.070	63.569	-0.935
	1016	2HD2	ASN	785	19.233	62.251	-1.704
	1017	N	GLU	. 786	22.663	58.979	-0.126
	1018	CA	GLU	786	24.082	58.822	-0.276
	1019	HN	GLU	786	22.072	58.756	-0.901
	1020	С	GLU	786	24.617	60.138	-0.412
30	1021	0	GLU	786	25.341	60.550	0.437
	1022	СВ	GLU	786	24.391	58.080	-1.511
	1023	CG	GLU	786	25.667	57.375	-1.441
	1024	CD	GLU	786	26.031	56.969	-2.820
	1025	OE1	GLU	786	25.501	55.940	-3.297
35	1026	OE2	GLU	786	26.811	57.715	-3.446
	1027	HE2	GLU	786	26.969	57.356	-4.306
	1028	N	GLN	787	24.351	60.774	-1.523
	1029	CA	GLN	787	24.794	62.102	-1.541
	1030	HN	GLN	787	23.873	60.349	-2.292
40	1031	С	GLN	787	25.042	62.437	-0.030
	1032	0	GLN	787	26.119	62.188	0.452
	1033	CB	GLN	787	23.667	62.852	-2.085
	1034	CG	GLN	787	24.038	64.078	-2.608
	1035	CD	GLN	787	22.876	64.912	-2.433
	1036	OE1	GLN	787	21.774	64.528	-2.827
45	1037	NE2	GLN	787	23.064	66.159	-1.785
	1037	1HE2	GLN	787	22.280	66.783	-1.655
	1039	2HE2	GLN	787	23.984	66.437	
	1040	N N	ARG				-1.479
	1040	CA		788	24.048	62.861	0.759
50	1041	HN	ARG	788	24.284	63.236	2.187
			ARG	788	23.124	62.930	0.385
	1043	C	ARG	788	25.212	62.467	3.112
		0	ARG	788	26.035	63.039	3.822
	1045	CB	ARG	788	22.962	63.385	2.896
	•						

				700	22,235	64.527	2.333
	1046	CG	ARG	788	20.817	64.471	2.706
	1047	CD	ARG	788	20.155	65.689	2.277
	1048	NE	ARG	788	18.843	65.836	2.288
_	1049	CZ	ARG	788	17.944	64.906	2.689
5	1050	NHI	ARG	788	16.968	65.106	2.663
	1051	1HH1	ARG	788	18.268	64.016	3.011
	1052	2HH1	ARG	788	18.393	67.046	1.851
	1053	NH2	ARG	788	17.416	67.245	1.824
	1054	1HH2	ARG	788	19.071	67.726	1.561
10	1055	2HH2	ARG	788	20.719	66.452	1.960
	1056	HE	ARG	788	25.022	61.164	3.130
	1057	N	MET	789	25.809	60.250	3.920
	1058	CA	MET	789	24.290	60.787	2.563
	1059	HN	MET	789	27.284	60.373	3.637
15	1060	C	MET	789	28.101	59.697	4.243
	1061	0	MET	789	25.429	58.865	3.514
	1062	CB	MET	789	24.167	58.419	4.097
	1063	CG	MET	789	23.912	56.709	3.659
	1064	SD	MET	789	23.912	56.454	4,443
20	1065	CE	MET	789	27.641	61.215	2.696
20	1066	N	LYS	790	29.031	61.282	2.344
	1067	CA	LYS	790		61.793	2.238
	1068	HN	LYS	790	26.965 29.746	62.384	3.101
	1069	C	LYS	790	30.975	62.481	3.039
	1070	0	LYS	790	29.122	61.512	0.810
25	1071	CB	LYS	790		62.298	0.233
	1072	CG	LYS	790	27.919	62.487	-1.286
	1073	CD	LYS	790	27.941	63.214	-1.725
	1074	CE	LYS	790	26.663	63.551	-3.157
	1075	NZ	LYS	790	26.758	62.803	-3.674
30	1076	HZ2	LYS	790	25.829	63.643	-3.580
	1077	HZ1	LYS	790	27.261	64.408	-3.265
	1078	HZ3	LYS	790	28.943	63.122	3.884
	1079	N	GLU	791	29.321	64.309	4.668
	1080	CA	GLU	791	27.987	62.835	3.941
35	1081	HN	GLU	791	30.190	64.269	5.882
	1082	С	GLU	791		63.817	6.953
	1083	0	GLU	791	29.802	65.107	4.935
	1084	CB	GLU	791	28.014	65.712	3.694
	1085	CG	GLU	791	27.943	66.869	2.946
40	1086	CD	GLU	791	28.629	67.715	3.503
40	1087	OE1	GLU	791	27.700	66.866	1.606
	1088	OE2	GLU	791		67.602	1.205
	1089	HE2	GLU	791	28.137 31.290	64.992	5.774
	1090	N	SER	792		65.527	4.911
	1091	HN	SER	792	31.460 32.264	65.049	6.850
45	1092	CA	SER	792		64.179	8.078
	1093	C	SER	792	32.067 32.972	63.485	8.496
	1094	0	SER	792		66.554	7.217
	1095	СВ	SER	792	32.290	67.404	6.098
	1096	OG	SER	792	32.013	67.269	5,455
50	1097	HG	SER	792	32.714	64.132	8.672
	1098	N	SER	793	30.907	63.399	9.897
	1099	CA	SER	793	30.965	64.558	8.313
	1100	HN	SER	793	30.077	04.330	1 0.515

	1101	С	SER	793	29.791	62.534	10.105
	1102	0	SER	793	29.540	62.065	11.206
	1103	СВ	SER	793	31.071	64.489	10.994
_	1104	OG	SER	793	32.304	64.430	11.719
5	1105	HG	SER	793 .	32.330	63.584	12.174
	1106	N	PHE	794	29.108	62.259	9.021
	1107	CA	PHE	794	27.866	61.582	9.147
	1108	HN	PHB	794	29.455	62.522	8.121
	1109	С	PHE	794	27.801	60.103	9.326
10	1110	0	PHE	794	27.198	59.595	10.283
	1111	СВ	PHE	794	26.966	61.982	7.939
	1112	CG	PHE	794	26.406	63.413	7.948
	1113	CD1	PHE	794	26.710	64.269	9.013
	1114	CE1	PHE	794	26.147	65.538	9.076
15	1115	CZ	PHE	794	25.289	65.968	8.067
	1116	CE2	PHE	794	24.990	65.126	6.997
	1117	CD2	PHE	794	25.545	63.850	6.938
	1118	N	TYR	795	28.424	59.411	8.394
	1119	CA	TYR	795	28.382	57.988	8.407
20	1120	HN	TYR	795	28.928	59.887	7.673
20	1121	С	TYR	795	28.762	57.515	9.775
	1122	0	TYR	795	28.033	56.784	10.449
	1123	СВ	TYR	795	29.348	57.438	7.376
	1124	CG	TYR	795	29.176	55.974	7.269
	1125	CD1	TYR	795	28.002	55.450	6.752
25	1126	CE1	TYR	795	27.745	54.108	6.812
	1127	CZ	TYR	795	28.671	53.268	7.389
	1128	OH	TYR	795	28.414	51.916	7.449
	1129	НН	TYR	795	29.242	51.461	7.639
	1130	CE2	TYR	795	29.855	53.763	7.897
30	1131	CD2	TYR	795	30.101	55.111	7.832
	1132	N	SER	796	29.891	58.001	10.221
	1133	CA	SER	796	30.342	57.544	11.482
	1134	HN	SER	796	30.414	58.669	9.692
	1135	С	SER	796	29.351	57.385	12.601
35	1136	0	SER	796	29.510	56.535	13.475
	1137	CB	SER	796	31.546	58.421	11.908
	1138	OG	SER	796	32.608	57.662	12.496
	1139	HG	SER	796	32.265	57.264	13.300
	1140	N	LEU	797	28.310	58.183	12.555
40	1141	CA	LEU	797	27.317	58.140	13.581
40	1142	HN	LEU	797	28.212	58.827	11.796
	1143	C	LEU	797	26.033	57.625	13.033
	1144	0	LEU	797	25.110	57.369	13.780
	1145	CB	LEU	<i>7</i> 97	27.158	59.601	14.089
	1146	CG	LEU	797	28.428	60.347	14.580
45	1147	CD1	LEU	797	28.597	60.160	16.094
	1148	CD2	LEU	797	29.704	59.888	13.856
	1149	N	CYS	798	25.928	57.473	11.730
	1150	CA	CYS	798	24.626	57.048	11.241
	1151	HN	CYS	798	26.698	57.640	11.114
50	1152	С	CYS	798	24.672	55.630	11.032
	1153	0	CYS	798	23.734	54.964	10.598
	1154	СВ	CYS	798	24.304	57.699	9.924
	1155	SG	CYS	798	25.429	57.249	8.557
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					Toc 052	57.880	7.443
		u _G	CYS	798	25.052	55.124	11.438
	1156	HG	LEU	799	25.779	53.807	11.104
	1157	N	LEU	799	25.912	55.639	11.944
	1158	CA	LEU	799	26.470	52.926	12.098
	1159	HN	LEU	799	25.261	51.861	11.743
	1160	<u>C</u>	LEU	799	24.784		11.014
	1161	0	LEU	799	27.437	53.512	10.320
	1162	CB	LEU	799	27.888	52.198	10.070
	1163	CG		799	29.402	52.227	11.127
	1164	CD1	LEU	799	27.519	50.943	13.345
0	1165	CD2	LEU	800	25.210	53.364	14.303
	1166	N	THR	800	24.614	52.485	13.604
	1167	CA	THR	800	25.569	54.261	
	1168	HN	THR	800	23.134	52.463	14.182
	1169	C	THR		22,489	51.556	14.682
_	1170	0	THR	800	25.044	52.867	15.760
5	1171	CB	THR	800	26.408	52.530	15.980
		OG1	THR	800	26.624	52.853	16.860
	1172	HG1	THR	800	24.282	52.165	16.905
	1173	CG2	THR	800	22.602	53.452	13.488
	1174	N	MET	801	21.170	53.504	13.266
20	1175	CA	MET	801	23.189	54.169	13.114
	1176	HN	MET	801		52.600	12.120
	1177	C	MET	801	20.868	51.793	12.150
	1178	0	MET	801	19.942	54.886	12.872
	1179		MET	801	20.762	55.778	14.039
	1180	CB	MET	801	20.691	57.362	13.567
25	1181	CG	MET	801	20.060	57.817	12.406
	1182	SD	MET	801	21.271		11.071
	1183	CE	TRP	802	21.643	52.808	9.879
	1184	N	TRP	802	21.545	52.016	11.110
	1185	CA		802	22.321	53.542	10.305
30	1186	HN	TRP	802	21.468	50.589	9,690
	1187	C	TRP	802	20.836	49.738	9.060
	1188	0	TRP	802	22.844	52.252	
	1189	CB	TRP	802	22.891	51.531	7.709
	1190	CG	TRP	802	23.488	50.276	7.467
05	1191	CD1	TRP	802	23.432	49.930	6.103
35	1192	NE1	TRP	802	22.790	51.007	5.513
	1193	CE2	TRP	802	22.457	51.986	6.482
	1194	CD2	TRP		23,821	49.099	5.643
	1195	HEI	TRP	802	21.816	53.192	6.099
	1196	CE3	TRP	802	21.507	53.379	4.752
40	1197	CZ3	TRP	802	21.828	52.408	3.793
		CH2	TRP	802	22.472	51.222	4.154
	1198	CZ2	TRP	802	22.153	50.339	11.396
	1199	N N	GLN	803		49.017	11.904
	1200	CA	GLN	803	22.243	51.086	11.873
45	1201	HN	GLN	803	22.616	48.353	12.340
45	1202		GLN	803	20.950	47.145	12.174
	1203		GLN	803	20.775		13.058
	1204	0	GLN	803	23.270	49.040	13.940
	1205	CB	GLN	803	23.347	47.750	13.360
	1206	CG		803	23.993	46.486	
50	1207	CD	GLN	803	23.982	45.432	13.976
	1208	OE1	GLN		24.591	46.532	12.197
	1209	NE2	GLN	803	24.626	47.457	11.766
	1 1207	2HE2	GLN	1 803	1 2 1100		

	1211	1HE2	1 CIN	T 002	25.051	45.665	11.012
	1212	N N	ILE	803	20.050	49.131	11.913
	1213		ILE		18.817	48.561	
	1213	HN		804	20.217		13.415
5	1215	C	ILE	804 804	17.808	50.114 48.322	12.985
	1216						12,301
		O	ILE	804	17.107	47.307	12.280
	1217	CB CG1	ILE	804	18.233	49.500	14.547
	1218	CG2	ILE	804	19.231	50.578 48.703	15.080
10							15.770
	1220	CD1 N	ILE PRO	804 805	18.615	51.703 49.278	15.936
	1222	CA	PRO	805	16.882	49.278	11.384
	1223	C	PRO	805	17.249		10.220
		0				48.056	9.390
15	1224 1225	CB	PRO PRO	805 805	16.449 17.108	47.474	8.650
15	1225	CG	PRO	805	18.553	50.588	9.484
						50.963	
	1227	CD N	PRO GLN	805	18.675	50.520	11.308
	1229	CA	GLN	806	18.511	47.706	9.525
		HN	GLN	806	19.003	46.614	8.791
20	1230	C	GLN	806		48.217	10.156
	1231	0	GLN	806	18.670 18.528	45.295 44.284	9.410
	1232	CB	GLN	806	20.598		8.737
	1233	CG	GLN	806	21.441	46.786	8.783
	1235	CD	GLN	806	22.971	45.470 45.564	8.858 8.916
25	1236	OE1	GLN	806	23.661	44.563	9.015
	1237	NE2	GLN	806	23.555	46.735	8.884
	1238	2HE2	GLN	806	22.920	47.534	8.870
	1239	1HE2	GLN	806	24.571	46.713	8.992
	1240	N	GLU	807	18.482	45.308	10.714
30	1241	CA	GLU	807	18.132	44.091	11.393
	1242	HN	GLU	807	18.583	46.160	11.228
	1243	C	GLU	807	16.669	43.824	11.239
	1244	Ŏ	GLU	807	16.231	42.679	11.130
	1245	СВ	GLU	807	18.518	44.229	12.845
35	1246	CG	GLU	807	19.997	44.150	12.996
	1247	CD	GLU	807	20.469	42.740	12.723
	1248	OE1	GLU	807	20.203	41.865	13.569
	1249	OE2	GLU	807	21.082	42.493	11.663
	1250	HE2	GLU	807	21.309	41.576	11.637
40	1251	N	PHE	808	15.910	44.900	11.228
	1252	CA	PHE	808	14.478	44.796	11.066
	1253	HN	PHE	808	16.330	45.802	11.332
	1254	С	PHE	808	14.232	44.138	9.744
	1255	0	PHE	808	13.408	43.246	9.581
45	1256	CB	PHE	808	13.861	46.228	11.038
45	1257	CG	PHE	808	13.638	46.903	12.400
	1258	CD1	PHE	808	13.232	48.242	12.450
	1259	CE1	PHE	808	13.103	48.891	13.673
	1260	CZ	PHE	808	13.363	48.202	14.855
	1261	CE2	PHE	808	13.757	46.866	14.814
50	1262	CD2	PHE	808	13.897	46.218	13.589
	1263	N	VAL	809	14.977	44.617	8.782
İ	1264	CA	VAL	809	14.838	44.102	7.476
	1265	HN	VAL	809	15.639	45.342	8.971
'							

	1266	C	VAL	809	15.236	42.654	7.417
	1267	0	VAL	809	14.511	41.796	6.912
	1268	CB	VAL	809	15.760	44.976	6.536
_	1269	CG1	VAL	809	15.758	44.603	5.028
5	1270	CG2	VAL	809	15.445	46.491	6.582
	1271	N	LYS	810	16.426	42.387	7.907
	1272	CA	LYS	810	16.928	41.042	7.870
	1273	HN	LYS	810	16.981	43.119	8.304
	1274	С	LYS	810	16.024	40.070	8.594
10	1275	ō	LYS	810	15.810	38.937	8.166
	1276	CB	LYS	810	18.353	41.041	8.489
	1277	CG	LYS	810	18.830	39.637	8.937
	1278	CD	LYS	810	20.248	39.591	9.511
	1279	CE	LYS .	810	20.176	39.645	11.043
15	1280	NZ	LYS	810	19.606	38.385	11.551
75		HZ2	LYS	810	19.931	37.588	10.990
	1281	HZ1	LYS	810	19.911	38.199	12.512
	1282	HZ3	LYS	810	18.608	38.433	11.520
	1283		LEU	811	15.495	40.520	9.712
	1284	N	LEU	811	14.655	39.668	10.510
20	1285	CA	LEU	811	15.678	41.458	10.007
	1286	HN		811	13.234	39.665	10.035
	1287	C	LEU	811	12.397	38.918	10.547
	1288	0	LEU		14.713	40.140	11.936
	1289	CB	LEU	811	15.052	39.039	12.925
25	1290	CG	LEU	811		38.065	12.339
	1291	CD1	LEU	811	16.041	39.703	14.158
	1292	CD2	LEU	811	15.613		9.071
	1293	N	GLN	812	12.952	40.532	8.549
	1294	CA	GLN	812	11.615	40.583	8.713
00	1295	HN	GLN	812	13.660	41.140	
30	1296	С	GLN	812	10.696	40.731	9.721
	1297	0	GLN	812	9.911	39.842	10.019
	1298	СВ	GLN	812	11.347	39.285	7.826
	1299	CG	GLN	812	12.088	39.230	6.534
	1300	CD	GLN	812	11.426	40.137	5.538
<i>35</i>	1301	OE1	GLN	812	12.016	41.104	5.053
	1302	NE2	GLN	812	10.143	39.757	5.076
	1303	1HE2	GLN	812	9.717	40.296	4.336
	1304	2HE2	GLN	812	9.714	38.902	5.392
	1305	N	VAL	813	10.802	41.849	10.410
40	1306	CA	VAL	813	9.957	42.060	11.554
	1307	HN	VAL	813	11.466	42.546	10.139
	1308	C	VAL	813	8.637	42.654	11.111
	1309	0	VAL	813	8.601	43.514	10.245
	1310	CB	VAL	813	10.678	42.954	12.576
	1311	CG1	VAL	813	9.686	43.569	13.534
45	1312	CG2	VAL	813	11.707	42.109	13.330
	1313	N	SER	814	7.550	42.174	11.707
	1314	CA	SER	814	6.206	42.646	11.374
	1315	HN	SER	814	7.654	41.466	12.405
	1316	С	SER	814	5.740	43.761	12.307
50	1317	0	SER	814	6.142	43.810	13.468
	1318	СВ	SER	814	5.222	41.499	11.479
	1319	OG	SER	814	4.854	41.159	12.814
	1320	HG	SER	814	4.170	40.479	12.754
	<u> </u>						

	1321	N	GLN	815	4.866	44.635	11.811
	1322	CA	GLN	815	4.351	45.754	12.613
	1323	HN	GLN	815	4.552	44.527	10.867
-	1324	C	GLN	815	3.904	45.330	13.998
5	1325	0	GLN	815	4.118	46.035	14.988
	1326	СВ	GLN	815	3.195	46.426	11.840
	1327	CG	GLN	815	2.824	47.881	12.278
	1328	CD	GLN	815	3.920	48.953	12.315
	1329	OE1	GLN	815	3.652	50.122	12.543
10	1330	NE2	GLN	815	5.164	48.624	12.073
	1331	2HE2	GLN	815	5.311	47.646	11.821
	1332	1HE2	GLN	815	5.821	49.407	12.053
	1333	N	GLU	816	3.249		
	1334	CA	GLU	816	2.791	44.187	14.073
15						43.772	15.369
15	1335	HN	GLU	816	3.079	43.631	13.259
	1336	C	GLU	816	3.939	43.440	16.298
	1337	0	GLU	816	3.918	43.859	17.456
	1338	CB	GLU	816	1.775	42.645	15.241
	1339	CG	GLU	816	0.366	43.221	15.199
20	1340	CD	GLU	816	-0.716	42.166	15.204
	1341	OE1	GLU	816	-0.619	41.208	16.010
	1342	OE2	GLU	816	-1.673	42.306	14.407
	1343	HE2	GLU	816	-2.276	41.586	14.509
	1344	N	GLU	817	4.954	42.726	15.821
25	1345	CA	GLU	817	6.095	42.447	16.690
	1346	HN	GLU	817	4.937	42.386	14.881
	1347	C	GLU	817	6.767	43.775	17.046
	1348	0	GLU	817	7.106	44.024	18.195
	1349	СВ	GLU	817	7.107	41.550	15.999
	1350	CG	GLU	817	6.523	40.254	15.554
30	1351	CD	GLU	817	7.381	39.567	14.525
	1352	OE1	GLU	817	7.888	40.268	13.614
	1353	OE2	GLU	817	7.534	38.332	14.621
	1354	HE2	GLU	817	8.090	38.028	13.919
	1355	N	PHE	818	6.961	44.631	16.052
35	1356	CA	PHE	818	7.599	45.926	16.270
	1357	HN	PHE	818	6.663	44.383	15.130
	1358	C	PHE	818	6.930	46.789	17.341
	1359	0	PHE	818	7.599	47.422	18.157
	1360	CB	PHE	818	7.619	46.716	14.927
40	1361	CG	PHE	818	7.823	48.236	15.031
	1362	CD1	PHE	818	9.110	48.750	15.221
	1363	CE1	PHE	818	9.326	50.123	15.217
	1364	CZ	PHE	818	8.258	50.993	15.006
	1365	CE2	PHE	818	6.975	50.488	14.804
	1366	CD2	PHE	818	6.756	49.113	14.818
45	1367	N	LEU	819	5.608	46.853	17.289
	1368	CA	LEU	819	4.847	47.635	18.238
	1369	HN	LEU	819	5.123	46.347	16.575
	1370	C	LEU	819	5.158	47.193	19.666
	1371	0	LEU	819	5.472	48.013	20.534
50	1372	CB	LEU	819	3.348	47.483	17.961
•	1373	CG	LEU	819	2.776	48.377	16.869
	1374	CD1	LEU	819 -	1.284	48.208	16.796
	1375	CD2	LEU	819	3.116	49.813	17.180
					5.110	.7.013	17.100

		T.,	C370	920	5.049	45.886	19.882
	1376	N	CYS	820	5.315	45.273	21.168
	1377	CA	CYS	820 820	4.771	45.298	19.122
	1378	HN	CYS		6.753	45.478	21.587
5	1379	<u>C</u>	CYS	820 820	7.049	45.668	22.759
	1380	0	CYS		5.047	43.781	21.103
	1381	CB	CYS	820	3.280	43.364	20.905
	1382	SG	CYS	820 820	3.138	42.038	20.857
	1383	HG	CYS		7.657	45.430	20.633
10	1384	N	MET	821 821	9.054	45.604	20.957
10	1385	CA	MET	821	7.378	45.273	19.686
	1386	HN	MET	821	9.407	47.017	21,406
	1387	<u>c</u>	MET	821	10.286	47.205	22.252
	1388	0	MET	821	9.920	45.227	19.760
	1389	CB	MET	821	10.038	43.744	19.538
15	1390	CG	MET	821	11.149	43.450	18.194
	1391	SD	MET	821	10.046	43.457	16.968
	1392	CE	MET	822	8.738	48.013	20.833
	1393	N	LYS	822	9.021	49.393	21.192
	1394	CA	LYS	822	8.035	47.811	20.150
20	1395	HN	LYS	822	8,476	49.690	22.582
	1396	<u>C</u>	LYS	822	9.008	50.541	23.304
	1397	0	LYS	822	8.393	50.324	20.170
	1398	CB	LYS	822	8.973	51.714	20.152
	1399	CG	LYS	822	8.431	52.481	18.948
25	1400	CD	LYS	822	6.976	52.947	19.146
	1401	CE	LYS	822	5.879	51.911	19.313
	1402	NZ	LYS	822	4.968	52.385	19.393
	1403	HZ1		822	5.869	51.286	18.495
	1404	HZ2	LYS	822	6,049	51.374	20.139
20	1405	HZ3	LYS VAL	823	7.405	48.990	22.947
30	1406	N	VAL	823	6.794	49.152	24.249
	1407	CA	VAL	823	7.012	48.333	22.304
	1408	HN	VAL	823	7.792	48.552	25.214
	1409	C O	VAL	823	8.098	49.138	26.238
	1410	CB	VAL	823	5.416	48.382	24.314
35	1411	CG1	VAL	823	4.716	48.337	25.701
	1412	CG2	VAL	823	4.347	48.924	23.335
	1413	N CG2	LEU	824	8.316	47.381	24.860
	1414	CA	LEU	824	9.318	46.724	25.680
	1415	HN	LEU	824	8.014	46.945	24.013
40	1417	C	LEU	824	10.542	47.619	25.856
	1418	Ö	LEU	824	11.126	47.645	26.920
	1419	CB	LEU	824	9.732	45.399	25.057
	1420	CG	LEU	824	9.203	44.140	25.744
	1420	CD1	LEU	824	8.142	44.484	26.747
45	1422	CD2	LEU	824	8.656	43.185	24.714
		N	LEU	825	10.939	48.369	24.839
	1423	CA	LEU	825	12.107	49.226	25.037
	1424	HN	LEU	825	10.456	48.350	23.963
		C	LEU	825	11.882	50.322	26.062
50	1426	0	LEU	825	12.837	50.825	26.638
30	1427	CB	LEU	825	12.541	49.892	23.740
	1428	CG	LEU	825	13.182	49.049	22.650
	1429	CD1	LEU	825	13.307	49.968	21.459
	1430	1001	100		1		

	1431	CD2	LEU	825	14.549	48.490	23.053
	1432	N	LEU	826	10.630	50.712	26.265
	1433	CA	LEU	826	10.312	51.764	27.230
	1434	HN	LEU	826	9.890	50.278	25.750
5	1435	C	LEU	826	10.574	51.184	28.611
	1436	ō	LEU	826	10.954	51.899	29.541
	1437	CB	LEU	826	8.840	52.169	27.109
	1438	CG	LEU	826	8.322	53.116	28.189
	1439	CD1	LEU	826	9.120	54.420	28.142
10	1440	CD2	LEU	826	6.831	53.361	27.988
	1441	N	LEU	827	10.382	49.872	28.710
	1442	CA	LEU	827	10.577	49.134	29.944
	1443	HN	LEU	827	10.089	49.370	27.896
	1444	C	LEU	827	11.923	48.441	29.920
15	1445	ő	LEU	827	12.131	47.479	30.657
13	1446	CB	LEU	827	9.495	48.072	30.065
	1447	CG	LEU	827	8.104	48.624	29.807
	1448	CD1	LEU	827	7.060	47.528	29.964
	1449	CD2	LEU	827	7.865	49.767	30.773
	1450	N N	ASN	828	12.837	48.936	29.093
20	1451	CA	ASN	828	14.140	48.299	28.921
	1452	HN	ASN	828	12.627	49.766	28.575
	1453	C	ASN	828	15.279	48.552	29.904
	1454	o ·	ASN	828	16.359	47.972	29.754
	1455	CB	ASN	828	14.611	48.542	27.457
25	1456	CG	ASN	828	15.909	47.853	27.023
	1457	OD1	ASN	828	16.588	48.268	26.095
	1458	ND2	ASN	828	16.289	46.773	27.651
	1459	1HD2	ASN	828	17.076	46.309	27.188
	1460	2HD2	ASN	828	15.655	46.401	28.358
30	1461	N	THR	829	15.084	49.428	30.877
	1462	CA	THR	829	16.135	49.624	31.870
	1463	HN	THR	829	14.231	49.947	30.930
	1464	С	THR	829	15.597	50.417	33.047
	1465	0	THR	829	14.769	51.313	32.899
35	1466	CB	THR	829	17.426	50.297	31.293
	1467	OG1	THR	829	17.180	51.662	30.983
	1468	HG1	THR	829	18.024	52.029	30.704
	1469	CG2	THR	829	17.984	49.697	29.985
	1470	N	ILE	830	16.033	50.023	34.233
40	1471	CA	ILE	830	15.585	50.666	35.447
,•	1472	HN	ILE	830	16.684	49.267	34.291
	1473	C	ILE	830	16.791	51.117	36.256
	1474	0	ILE	830	17.930	50.741	35.961
	1475	CB	ILE	830	14.665	49.670	36.265
45	1476	CG1	ILE	830	13.280	49.373	35.607
43	1477	CG2	ILE	830	14.414	50.145	37.730
	1478	CD1	ILE	830	12.498	48.179	36.193
	1479	N	PRO	831	16.563	51.958	37.275
	1480	CA	PRO	831	17.668	52.431	38.099
	1481	CD	PRO	831	15.277	52.419	37.819
50	1482	С	PRO	831	18.186	51.221	38.868
	1483	0	PRO	831	17.402	50.334	39.217
	1484	CB	PRO	831	16.993	53.465	38.994
	1485	CG	PRO	831	15.648	52.866	39.206

			T TOT T	832	19.494	51.150	39.095
	1486	N	LEU		20.052	50.018	39.834
	1487	CA	LEU	832	20.098	51.873	38.760
	1488	HN	LEU	832	19.707	50.210	41.288
	1489	C	LEU	832		50.805	42.041
	1490	0	LEU	832	20.462	49.932	39.634
	1491	CB	LEU	832	21.592	49.192	40.713
	1492	CG	LEU	832	22.428	47.800	40.976
	1493	CD1	LEU	832	21.838		40.329
	1494	CD2	LEU	832	23.911	49.063	41.671
		N	GLU	833	18.554	49.692	43.023
	1495	CA	GLU	833	18.050	49.804	
	1496	HN	GLU	833	18.004	49.201	40.995
	1497	C	GLU	833	16.579	49.552	42.796
	1498		GLU	833	15.893	48.957	43.627
	1499	0	GLU	833	18.296	51.227	43.599
	1500	CB		833	19.635	51.466	44.371
	1501	CG	GLU	833	20.266	50.286	45.114
	1502	CD	GLU	833	21.328	50.371	45.718
	1503	OE1	GLU	833	19.537	49.139	45.040
	1504	OE2	GLU		19.980	48.453	45.517
	1505	HE2	GLU	833	16.109	50.000	41.634
	1506	N	GLY	834	14.720	49.791	41.279
	1507	CA	GLY	834	16.717	50.483	41.004
	1508	HN	GLY	834		50.996	41.429
	1509	С	GLY	834	13.826	52.016	42.013
	1510	0	GLY	834	14.203	50.858	40.909
	1511	N	LEU	835	12.610	51.928	40.943
	1512	CA	LEU	835	11.630		40.480
	1513	HN	LEU	835	12.364	49.989	42.168
	1514	C	LEU	835	10.728	51.875	
		l ö	LEU	835	10.668	50.869	42.873
	1515	СВ	LEU	835	10.747	51.874	39.691
	1516	CG	LEU	835	11.282	51.133	38.465
	1517		LEU	835	10.235	51.086	37.376
	1518	CD1	LEU	835	12.499	51.831	37.961
	1519	CD2	ARG	836	10.023	52.977	42.394
	1520	N		836	9.092	53.097	43.507
	1521	CA	ARG	836	10.136	53.755	41.776
	1522	HN	ARG	836	7.993	52.055	43.370
	1523	C	ARG	836	7.441	51.575	44.364
	1524	0	ARG	836	8,509	54.537	43.522
	1525	CB	ARG		9.557	55.664	43.719
)	1526	CG	ARG	836	8.913	57.007	44.087
	1527	CD	ARG	836	9,936	58.073	43.933
	1528	NE	ARG	836		59.361	44.190
	1529	CZ	ARG	836	9.751	59.870	44.622
	1530	NH1	ARG	836	8.635	59.173	44.750
_	1531	1HH1	ARG	836	7.901		44.783
5	1532	2HH1	ARG	836	8.615	60.875	43.998
	1533	NH2	ARG	836	10.745	60.153	
		1HH2	ARG	836	11.571	59.655	43.659
	1534	2HH2	ARG	836	10.609	61.143	44.190
	1535	HE	ARG	836	10.841	57.796	43.608
0	1536		SER	837	7.685	51.710	42.124
	1537	N CA	SER	837	6.638	50.742	41.831
	1538	CA		837	8.187	52.127	41.367
	1539	HN	SER	057	7.219	49.524	41.124

	1541	0	SER	837	6.549	48.918	40.287
	1542	CB	SER	837	5.578	51.392	40.941
	1543	OG	SER	837	5.265	52.742	41.226
5	1544	HG	SER	837	6.121	53.196	41.183
	1545	N	GLN	838	8.456	49.178	41.466
	1546	CA	GLN	838	9.150	48.037	40.861
	1547	HN	GLN	838	8.931	49.716	42.162
	1548	С	GLN	838	8.192	46.878	40.678
10	1549	0	GLN	838	8.146	46.245	39.621
	1550	CB	GLN	838	10.317	47.597	41.749
	1551	CG	GLN	838	11.126	46.435	41.192
	1552	CD	GLN	838	11.754	46.736	39.838
	1553	OE1	GLN	838	12.593	47.637	39.708
15	1554	NE2	GLN	838	11.300	46.051	38.710
15	1555	1HE2	GLN	838	11.713	46.227	37.810
	1556	2HE2	GLN	838	10.698	45.239	38.819
	1557	N	THR	839	7.428	46.617	41.721
	1558	CA	THR	839	6.438	45.559	41.743
	1559	HN	THR	839	7.538	47.180	42.541
20	1560	C	THR	839	5.617	45.521	40.432
	1561	0	THR	839	5.665	44.542	39.674
	1562	СВ	THR	839	5.497	45.756	42.980
	1563	OG1	THR	839	5.245	47.137	43.199
	1564	HG1	THR	839	4.610	47.182	43.920
25	1565	CG2	THR	839	6.029	45.240	44.334
	1566	N	GLN	840	4.911	46.618	40.171
	1567	CA	GLN	840	4.043	46.821	39.000
	1568	HN	GLN	840	4.977	47.370	40.826
	1569	C	GLN	840	4.787	46.827	37.655
30	1570	O	GLN	840	4.284	46.363	36.626
	1571	СВ	GLN	840	3.285	48.149	39.220
	1572	CG	GLN	840	1.744	48.117	38.951
	1573	CD	GLN	840	1.057	49.370	38.395
	1574	OE1	GLN	840	-0.136	49.373	38.136
	1575	NE2	GLN	840	1.756	50.454	38.169
35	1576	2HE2	GLN	840	2.758	50.364	38.342
	1577	1HE2	GLN	840	1.235	51.221	37.739
	1578	N	PHE	841	5.974	47.402	37.672
	1579	CA	PHE	841	6.803	47.466	36.494
	1580	HN	PHE	841	6.308	47.805	38.525
40	1581	С	PHE	841	6.951	46.051	35.974
	1582	0	PHE	841	6.586	45.728	34.845
	1583	CB	PHE	841	8.162	47.986	36.894
	1584	CG	PHE	841	9.121	48.038	35.779
	1585	CD1	PHE	841	9.173	49.152	34.962
45	1586	CE1	PHE	841	10.054	49.210	33.908
	1587	CZ	PHE	841	10.896	48.134	33.652
	1588	CE2	PHE	841	10.852	47.007	34.469
	1589	CD2	PHE	841	9.958	46.962	35.523
	1590	N .	GLU	842	7.494	45.200	36.835
50	1591	CA	GLU	842	7.725	43.824	36.478
J .	1592	HN	GLU	842	7.747	45.520	37.748
	1593	C	GLU	842	6.457	43.114	36.085
	1594	Ö	GLU	842	6.497	42.067	35.439
	1595	СВ	GLU	842	8.446	43.090	37.643
		<u></u>					·
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		T-000	GLU	842	9.948	43.446	37.896
	1596	CG	GLU	842	10.807	43.863	36.699
	1597	CD	GLU	842	11.982	44.190	36.805
	1598	OE1	GLU	842	10.143	43.835	35.511
5	1599	OE2	GLU	842	10.726	44.102	34.817
	1600	HE2	GLU	843	5.323	43.685	36.452
	1601	N N	GLU	843	4.073	43.059	36.084
	1602	CA	GLU	843	5.329	44.536	36.976
	1603	HN	GLU	843	3.717	43.494	34.675
0	1604	C	GLU	843	3.334	42.673	33.831
	1605	O	GLU	843	2.973	43.475	37.028
	1606	CB	GLU	843	1.740	42.656	36.823
	1607	CG	GLU	843	0.550	43.287	37.463
	1608	CD	GLU	843	0.751	44.057	38.432
15	1609	OE1	GLU	843	-0.579	43.009	37.001
	1610	OE2	GLU	843	-1.243	43.470	37.492
	1611	N HE2	MET	844	3.845	44.792	34.429
	1612		MET	844	3.554	45.353	33.128
	1613	CA	MET	844	4.151	45.398	35.162
20	1614	HNC	MET	844	4.558	44.789	32.155
20	1615	0	MET	844	4.191	44.248	31.119
	1616	CB	MET	844	3.648	46.902	33.186
	1617	CG	MET	844	2.579	47.610	34.044
	1618	SD	MET	844	2.732	49.395	33.860
~=	1619	CE	MET	844	1.675	49.895	35.225
25	1620	N N	ARG	845	5.831	44.879	32.504
	1621	CA	ARG	845	6.858	44.348	31.632
	1623	HN	ARG	845	6.083	45.314	33.368
	1624	C	ARG	845	6.663	42.886	31.230
	1625	Ö	ARG	845	7.031	42.498	32.276
30	1626	CB	ARG	845	8.222	44.487	
	1627	CG	ARG	845	9.338	43.990	31.382
	1628	CD	ARG	845	10.592	44.687	31.025
	1629	NE	ARG	845	11.788	44.423	30.720
	1630	CZ	ARG	845	12.240	43.213	31.237
35	1631	NH1	ARG	845	11.722	42.067	30.975
	1632	1HH1	ARG	845	12.111	41.185	31.874
	1633	2HH1	ARG	845	10.954	42.117	29.867
	1634	NH2	ARG	845	13.301	43.102	29.627
	1635	1HH2	ARG	845	13.666	42.202	29.480
40	1636	2HH2	ARG	845	13.711	43.925	30.686
	1637	HE	ARG	845	12.304	45.210	32.117
	1638	N	SER	846	6.107	42.067	31.804
	1639	CA	SER	846	5.895	40.660	33.011
	1640	HN	SER	846	5.830	42.421	30.792
45	1641	С	SER	846	4.760	40.504	29.913
40	1642	0	SER	846	4.808	39.640	33.116
	1643	СВ	SER	846	5.598	39.892	32.945
	1644	OG	SER	846	5.617	38.470	32.334
	1645	HG	SER	846	4.910	38.245	30.925
50	1646	N	SER	847	3.741	41.353	30.040
50	1647	CA	SER	847	2.576	42.038	31.653
	1648	HN	SER	847	3.773	41.645	28.607
	1649	С	SER	847	2.939	41.043	27.664
	1650	0	SER	847	2.409	41.037	27.007

	1651	СВ	SER	847	1.478	42.262	30.584
	1652	OG	SER	847	1.254	42.106	31.989
	1653	HG	SER	847	0.935	41.211	32.132
5	1654	N	TYR	848	3.812	42.633	28.428
-	1655	CA	TYR	848	4.213	42.934	27.078
	1656	HN	TYR	848	4.177	43.149	29.204
	1657	C	TYR	848	5.231	41.906	26.606
	1658	ō	TYR	848	5.482	41.819	25.421
	1659	СВ	TYR	848	4.743	44.368	26.937
10	1660	CG	TYR	848	3.625	45.390	27.002
	1661	CD1	TYR	848	2.598	45.389	26.052
	1662	CEI	TYR	848	1.491	46.230	26.193
	1663	CZ	TYR	848	1.411	47.080	27.284
	1664	OH	TYR	848	0.360	47.950	27.408
15	1665	нн	TYR	848	0.446	48.416	28.251
	1666	CE2	TYR	848	2.427	47.107	28.224
	1667	CD2	TYR	848	3.523	46.270	28.079
	1668	N	ILE	849	5.829	41.107	27.485
	1669	CA	ILE	849	6.748	40.123	26.919
20	1670	HN	ILE	849	5.659	41.174	28.468
	1671	C	ILE	849	5.925	39.010	26.292
	1672	0	ILE	849	6.310	38.445	25.274
	1673	СВ	ILE	849	7.733	39.512	27.935
	1674	CG2	ILE	849	8.465	38.324	27.285
25	1675	CG1	ILE	849	8.770	40.563	28.335
20	1676	CD1	ILE	849	9.397	40.319	29.678
	1677	N	ARG	850	4.782	38.702	26.894
	1678	CA	ARG	850	3.921	37.672	26.337
	1679	HN	ARG	850	4.514	39.179	27.732
30	1680	С	ARG	850	3.174	38.282	25.150
30	1681	0	ARG	850	2.782	37.583	24.217
	1682	CB	ARG	850	2.936	37.158	27.424
	1683	CG	ARG	850	3.598	36.378	28.590
	1684	CD	ARG	850	2.667	36.225	29.799
	1685	NE	ARG	850	3.213	35.160	30.678
35	1686	CZ	ARG	850	2.596	34.636	31.729
	1687	NH1	ARG	850	1.411	34.988	32.134
	1688	1HH1	ARG	850	0.990	35.715	31.555
	1689	2HH1	ARG	850	1.042	34.513	32.955
	1690	NH2	ARG	850	3.215	33.722	32.386
40	1691	1HH2	ARG	850	4.134	33.521	31.987
	1692	2HH2	ARG	850	2.749	33.318	33.196
	1693	HE	ARG	850	4.123	34.807	30.459
	1694	N	GLU	851	2.986	39.594	25.194
	1695	CA	GLU	851	2.315	40.291	24.115
45	1696	HN	GLU	851	3.313	40.111	25.985
	1697	C	GLU	851	3.224	40.145	22.892
	1698	0	GLU	851	2.748	40.020	21.757
	1699	СВ	GLU	851	2.129	41.756	24.506
	1700	CG	GLU	851	0.878	42.449	23.947
50	1701	CD	GLU	851	-0.362	41.556	23.874
	1702	OE1	GLU	851	-0.767	40.962	24.903
	1703	OE2	GLU	851	-0.936	41.463	22.763
	1704	HE2	GLU	851	-1.682	40.889	22.840
	1705	N	LEU	852	4.536	40.143	23.135

				1 062	5.503	39.980	22.058
	1706	CA	LEU	852	4.861	40.255	24.074
	1707	HN	LEU	852	5.325	38.560	21.578
	1708	C	LEU	852	5.338	38.275	20.384
	1709	0	LEU	852	6.946	40.169	22.549
	1710	CB	LEU	852	7.938	39.886	21.417
	1711	CG	LEU	852		40.699	20.219
	1712	CD1	LEU	852	7.511	40.214	21.805
	1713	CD2	LEU	852	9.362	37.669	22.539
	1714	N	ILE	853	5.141	36.263	22,235
	1715	CA	ILE	853	4.962	37.971	23,492
		HN	ILE	853	5.124		21,293
	1716	C	ILE	853	3.814	35.945	20,350
	1717	0	ILE	853	3.991	35.179	23.593
	1718	CB	ILE	853	4.851	35.456	24.642
	1719	CG1	ILE	853	5.959	35.789	23.378
	1720	CG2	ILE	853	4.837	33.910	26.075
	1721		ILE	853	5.707	35.276	
	1722	CD1	LYS	854	2.640	36.517	21.558
	1723	N	LYS	854	1.457	36.297	20.722
	1724	CA	LYS	854	2.564	37.116	22.355
	1725	HN	LYS	854	1.677	36.840	19.320
	1726	C		854	1.331	36.197	18.326
	1727		LYS	854	0.262	37.026	21.293
	1728	CB	LYS	854	-0.140	36.604	22.653
	1729	CG	LYS	854	-1.219	37.528	23.151
5	1730	CD	LYS	854	-2.034	36.824	24.193
	1731	CE	LYS	854	-3.153	37.678	24.762
	1732	NZ	LYS		-2.861	38.666	24.773
	1733	HZ1	LYS	854	-3.995	37.577	24.176
	1734	HZ2	LYS	854	-3.360	37.381	25.694
	1735	HZ3	LYS	854	2.213	38.053	19.254
10	1736	N	ALA	855	2.476	38.694	17.985
	1737	CA	ALA	855	2.441	38.534	20.101
	1738	HN	ALA	855		37.722	17.193
	1739	C	ALA	855	3.331	37.505	16.007
	1740	0	ALA	855	3.093	40.003	18,197
3 <i>5</i>	1741	CB	ALA	855	3.210	37.130	17.862
	1742	N	ILE	856	4.317	36.165	17,212
	1743	CA	ILE	856	5.197		18,827
	1744	HN	ILE	856	4.457	37.350	16.681
		$-\frac{m}{c}$	ILE	856	4.440	34.939	15.516
40	1745	- 6	ILE	856	4.599	34.576	18.167
40	1746	CB	ILE	856	6.305	35.673	
	1747	CG2	ILE	856	7.024	34.482	17.547
	1748		ILE	856	7.295	36.803	18.451
	1749	CG1	ILE	856	8.262	36.508	19.591
	1750	CD1	GLY	857	3.624	34.300	17.528
45	1751	N	GLY	857	2.865	33.114	17.116
	1752	CA	GLY	857	3.529	34.639	18.464
	1753	HN		857	1.853	33.364	16.013
	1754	C	GLY	857	1.584	32.470	15.219
	1755	0	GLY	858	1.272	34.561	15.966
50	1756	N	LEU		0.266	34.833	14.952
50	1757	CA	LEU	858	1.526	35.269	16.625
	1758	HN	LEU	858	0.809	35.417	13.651
	1759	C	LEU	858		36.025	12.892
	1760	0	LEU	858	0.067	30.023	

	1761	CB	LEU	858	-0.852	35.738	15.543
	1762	CG	LEU	858	-0.935	37.210	15.057
	1763	CD1	LEU	858	-2.282	37.825	15.463
5	1764	CD2	LEU	858	0.214	38.078	15.593
	1765	N	ARG	859	2.093	35.212	13.370
	1766	CA	ARG	859	2.681	35.753	12.142
	1767	HN	ARG	859	2.660	34.683	14.001
	1768	C	ARG	859	3.342	34.641	11.356
10	1769	0	ARG	859	3.279	34.579	10.126
	1770	CB	ARG	859	3.756	36.799	12.482
	1771	CG	ARG	859	4.482	37.395	11.260
	1772	CD	ARG	859	5.850	38.007	11.619
	1773	NE OF	ARG	859	6.988	37.182	11.200
15	1774	CZ	ARG	859	7.594	37.268	10.015
	1775	NH1	ARG	859	7.225	38.168	9.054
	1776	1HH1	ARG	859	7.713	38.187	8.184
	1777	2HH1	ARG	859	6.471	38.798	9.231
	1778 1779	NH2 1HH2	ARG	859	8.627	36.413	9.759
20	1780	2HH2	ARG ARG	859 859	9.108 8.889	36.443 35.748	8.885
	1781	HE	ARG	859	7.335	36.506	10.461
	1782	N N	GLN	860	3.975	33.764	12.123
	1783	CA	GLN	860	4.743	32.640	11.628
	1784	HN	GLN	860	3.918	33.887	13.114
25	1785	C	GLN	860	4.039	31.621	10.739
	1786	ō	GLN	860	3.938	31.802	9.526
	1787	СВ	GLN	860	5.410	31.950	12.839
	1788	CG	GLN	860	6.972	31.872	12.816
	1789	CD	GLN	860	7.777	33.116	12.418
30	1790	OE1	GLN	860	7.604	34.186	12.980
	1791	NE2	GLN	860	8.648	33.046	11.444
	1792	2HE2	GLN	860	8.695	32.143	10.970
	1793	1HE2	GLN	860	9.093	33.933	11.199
	1794	N	LYS	861	3.545	30.551	11.345
35	1795	CA	LYS	861	2.923	29.508	10.561
55	1796	HN	LYS	861	3.601	30.466	12.339
	1797	C	LYS	861	3.910	28.361	10.659
	1798	0	LYS	861	4.792	28.191	9.811
	1799	CB	LYS	861	2.682	29.908	9.079
40	1800	CG	LYS	861	2.106	28.758	8.216
40	1801	CD	LYS	861	1.917	29.096	6.735
	1802	CE	LYS	861	1.412	27.852	5.992
	1803	NZ	LYS	861	1.065	28.215	4.607
	1804	HZ2	LYS	861	1.724	28.911	4.239
	1805	HZ1	LYS	861	1.128	27.405	3.982
45	1806	HZ3	LYS	861	0.136	28.585	4.582
	1807	N	GLY	862	3.755	27.613	11.746
	1808	CA	GLY	862	4.564	26.452	12.119
	1809	HN	GLY	862	3.015	27.868	12.368
	1810	C	GLY	862	4.598	26.516	13.654
50	1811	0	GLY	862	3.551	26.710	14.274
	1812	N CA	VAL	863	5.763	26.372	14.275
	1813	CA	VAL	863	5.831	26.436	15.736
	1814	HN	VAL	863	6.596	26.219	13.743
	1815	C	VAL	863	7.207	26.150	16.311
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1817 CB	16.363 16.853 15.418 15.502 16.017 14.559 15.778 16.493 15.277 13.809
1817 CB	15.418 15.502 16.017 14.559 15.778 16.493 15.277 13.809
1818 CG1 VAL 863 4,303 24,329 1819 CG2 VAL 864 8,105 25,606 1820 N VAL 864 9,441 25,356 1821 CA VAL 864 7,868 25,372 1822 HN VAL 864 10,214 26,642 1823 C VAL 864 10,214 26,642 1824 O VAL 864 11,168 26,958 1825 CB VAL 864 10,130 24,141 1826 CG1 VAL 864 10,576 24,390 1827 CG2 VAL 864 11,1387 23,598 1828 N SER 865 9,787 27,400 1828 N SER 865 9,787 27,400 1829 CA SER 865 10,446 28,656 1830 HN SER 865 9,010 27,103 1831 C SER 865 9,822 29,736 1832 O SER 865 10,123 30,918 1833 CB SER 865 10,338 29,008 1834 OG SER 865 8,993 29,271 1835 HG SER 865 8,993 29,271 1836 N SER 866 8,349 30,300 1837 CA SER 866 8,349 30,300 1838 HN SER 866 8,349 30,300 1839 C SER 866 8,349 30,300 1841 CB SER 866 9,238 30,709 1841 CB SER 866 5,888 30,247 1842 OG SER 866 5,885 31,207 1844 N SER 867 9,809 29,754 1844 N SER 867 9,809 29,754 1846 HN SER 867 10,722 30,160 1847 C SER 867 11,947 30,685 1848 O SER 867 11,053 28,960 1849 CB SER 867 11,053 28,960 1849 CB SER 867 11,053 28,960 1849 CB SER 867 11,053 28,960 1849 CB SER 867 11,053 28,960 1849 CB SER 867 11,053 28,960 1849 CB SER 867 11,053 28,960 1849 CB SER 867 11,053 28,960 1849 CB SER 867 11,053 28,960 1849 CB SER 867 11,053 28,960 1849 CB SER 867 11,053 28,960 1849 CB SER 867 11,053 28,960 1849 CB SER 867 11,053 28,960 1849 CB SER 867 11,053 28,960 1849 CB SER 867 11,053 28,960 1849 CB SER SER SER SER SER SER SER SER SER SER SER SER SER S	15.502 16.017 14.559 15.778 16.493 15.277 13.809
1819 CG2	16.017 14.559 15.778 16.493 15.277 13.809
1820 N VAL 864 9,441 25,356 1821 CA VAL 864 9,441 25,356 1822 HN VAL 864 7,868 25,372 1823 C VAL 864 10,214 26,642 1824 O VAL 864 11,168 26,958 1825 CB VAL 864 10,130 24,141 1826 CGI VAL 864 10,576 24,390 1827 CG2 VAL 864 11,387 23,598 1828 N SER 865 9,787 27,400 1828 N SER 865 9,787 27,400 1829 CA SER 865 9,787 27,400 1830 HN SER 865 9,010 27,103 1831 C SER 865 9,822 29,736 1831 C SER 865 9,822 29,736 1832 O SER 865 10,123 30,918 1833 CB SER 865 10,338 29,008 1834 OG SER 865 10,338 29,008 1835 HG SER 865 8,993 29,271 1836 N SER 866 8,965 29,326 1837 CA SER 866 8,965 29,326 1838 HN SER 866 8,747 28,354 1839 C SER 866 9,409 31,901 1841 CB SER 866 5,865 31,207 1842 OG SER 866 5,865 31,207 1843 HG SER 866 5,865 31,207 1844 N SER 867 9,809 29,754 1845 CA SER 867 9,809 29,754 1846 HN SER 867 11,947 30,685 1847 C SER 867 11,947 30,685 1848 O SER 867 11,043 30,685 1849 CB SER 867 11,053 28,960 1849 CB SER 867 9,995 28,652	14.559 15.778 16.493 15.277 13.809
1821	15.778 16.493 15.277 13.809
1822 HN VAL 864 10.214 26.642 1823 C	16.493 15.277 13.809
1823 C VAL 864 11.168 26.958 1824 O VAL 864 10.130 24.141 1825 CB VAL 864 10.130 24.141 1826 CG1 VAL 864 10.576 24.390 1827 CG2 VAL 864 11.387 23.598 1828 N SER 865 9.787 27.400 1829 CA SER 865 10.446 28.656 1829 CA SER 865 9.010 27.103 1830 HN SER 865 9.010 27.103 1831 C SER 865 9.822 29.736 1832 O SER 865 10.123 30.918 1833 CB SER 865 10.338 29.008 1833 CB SER 865 10.338 29.008 1834 OG SER 865 10.338 29.008 1835 HG SER 865 8.993 29.271 1836 N SER 866 8.965 29.326 1837 CA SER 866 8.965 29.336 1838 HN SER 866 8.965 29.336 1839 C SER 866 8.747 28.354 1839 C SER 866 9.238 30.709 25 1840 O SER 866 9.238 30.709 1841 CB SER 866 9.409 31.901 1841 CB SER 866 5.888 30.247 1842 OG SER 866 5.888 30.247 1844 N SER 866 5.885 31.207 1844 N SER 866 5.885 31.207 1844 N SER 866 5.885 31.207 1844 N SER 867 9.809 29.754 1844 N SER 867 9.809 29.754 1845 CA SER 867 10.722 30.160 1847 C SER 867 11.053 28.960 1848 O SER 867 11.053 28.960	15.277 13.809
10	13.809
1825 CB	
1826 CG1	1.5.000
1827 CG2 VAL 864 1828 1828 N SER 865 9.787 27.400 1829 CA SER 865 10.446 28.656 1830 HN SER 865 9.010 27.103 1831 C SER 865 9.822 29.736 1832 O SER 865 10.123 30.918 1833 CB SER 865 10.338 29.008 1833 CB SER 865 8.993 29.271 1834 OG SER 865 8.993 29.271 1835 HG SER 865 8.491 28.461 1836 N SER 866 8.965 29.326 1837 CA SER 866 8.349 30.300 1838 HN SER 866 8.747 28.354 1839 C SER 866 9.238 30.709 1840 O SER 866 9.238 30.709 1841 CB SER 866 6.966 29.807 1842 OG SER 866 5.888 30.247 1843 HG SER 866 5.865 31.207 1844 N SER 867 9.809 29.754 1845 CA SER 867 9.809 29.754 1846 HN SER 867 10.722 30.160 1847 C SER 867 11.947 30.685 1848 O SER 867 11.947 30.685 1849 CB SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960 1840 CB SER 867 11.053 28.960 1840 CB SER 867 11.053 28.960 1840 CB SER 867 11.053 28.960 1840 CB SER 867 11.053 28.960 1840 CB SER 867 11.053 28.960 1840 CB SER 867 11.053 28.960 1840 CB SER 867 11.053 28.960 1840 CB SER 867 11.053 28.960 1840 CB S	15.999
1828 N SER 865 10.446 28.656 1829 CA SER 865 9.010 27.103 1830 HN SER 865 9.822 29.736 1831 C SER 865 10.123 30.918 1832 O SER 865 10.338 29.008 1833 CB SER 865 10.338 29.008 1834 OG SER 865 8.993 29.271 1835 HG SER 865 8.491 28.461 1836 N SER 866 8.965 29.326 1837 CA SER 866 8.349 30.300 1837 CA SER 866 8.349 30.300 1838 HN SER 866 8.747 28.354 1839 C SER 866 9.238 30.709 1840 O SER 866 9.238 30.709 1841 CB SER 866 9.409 31.901 1841 CB SER 866 5.888 30.247 1842 OG SER 866 5.888 30.247 1843 HG SER 866 5.888 30.247 1844 N SER 867 9.809 29.754 1844 N SER 867 9.809 29.754 1844 N SER 867 10.722 30.160 1845 CA SER 867 10.722 30.160 1846 HN SER 867 9.617 28.788 1847 C SER 867 11.947 30.685 1848 O SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960	14.773
1829 CA SER 865 9.010 27.103 1830 HN SER 865 9.822 29.736 1831 C SER 865 9.822 29.736 1832 O SER 865 10.123 30.918 1833 CB SER 865 10.338 29.008 1834 OG SER 865 8.993 29.271 1835 HG SER 865 8.491 28.461 1836 N SER 866 8.965 29.326 1837 CA SER 866 8.349 30.300 1838 HN SER 866 8.747 28.354 1839 C SER 866 9.238 30.709 1840 O SER 866 9.238 30.709 1841 CB SER 866 9.409 31.901 1841 CB SER 866 5.888 30.247 1842 OG SER 866 5.888 30.247 1843 HG SER 866 5.888 30.247 1844 N SER 866 5.865 31.207 1844 N SER 867 9.809 29.754 1846 HN SER 867 9.617 28.788 1847 C SER 867 10.722 30.160 1847 C SER 867 11.947 30.685 1848 O SER 867 11.947 30.685 1848 O SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960	14.481
1830 HN SER 805 9.822 29.736 1831 C SER 865 9.822 29.736 1832 O SER 865 10.123 30.918 1833 CB SER 865 10.338 29.008 1834 OG SER 865 8.993 29.271 1835 HG SER 865 8.491 28.461 1836 N SER 866 8.965 29.326 1837 CA SER 866 8.349 30.300 1838 HN SER 866 8.747 28.354 1839 C SER 866 9.238 30.709 1840 O SER 866 9.238 30.709 1841 CB SER 866 5.888 30.247 1842 OG SER 866 5.888 30.247 1843 HG SER 866 5.888 30.247 1844 N SER 866 5.888 30.247 1844 N SER 866 5.885 31.207 1844 N SER 867 9.809 29.754 1845 CA SER 867 9.809 29.754 1846 HN SER 867 9.617 28.788 1847 C SER 867 11.947 30.685 1848 O SER 867 11.947 30.685 1848 O SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960	14.218
1831	15.357
1832	15.207
1833 CB SFR 805 8.993 29.271 1834 OG SER 865 8.993 29.271 1835 HG SER 865 8.491 28.461 1836 N SER 866 8.965 29.326 1837 CA SER 866 8.349 30.300 1838 HN SER 866 8.747 28.354 1839 C SER 866 9.238 30.709 1840 O SER 866 9.409 31.901 1841 CB SER 866 6.966 29.807 1842 OG SER 866 5.888 30.247 1843 HG SER 866 5.865 31.207 1844 N SER 867 9.809 29.754 1844 N SER 867 9.809 29.754 1845 CA SER 867 9.617 28.788 1846 HN SER 867 11.947 30.685 1847 C SER 867 11.947 30.685 1848 O SER 867 12.641 31.546 1849 CB SER 867 11.053 28.960	12.977
1834 OG SER 805 8.491 28.461 1835 HG SER 865 8.491 29.326 1836 N SER 866 8.965 29.326 1837 CA SER 866 8.349 30.300 1838 HN SER 866 8.747 28.354 1839 C SER 866 9.238 30.709 1840 O SER 866 9.409 31.901 1841 CB SER 866 6.966 29.807 1842 OG SER 866 5.888 30.247 1842 OG SER 866 5.888 30.247 1843 HG SER 866 5.865 31.207 1844 N SER 867 9.809 29.754 1844 N SER 867 9.809 29.754 1845 CA SER 867 9.617 28.788 1846 HN SER 867 11.947 30.685 1847 C SER 867 11.947 30.685 1848 O SER 867 12.641 31.546 1849 CB SER 867 11.053 28.960	12.561
1835 HG SER 866 8.965 29.326 1836 N SER 866 8.965 29.326 1837 CA SER 866 8.349 30.300 1838 HN SER 866 8.747 28.354 1839 C SER 866 9.238 30.709 1840 O SER 866 9.409 31.901 1841 CB SER 866 6.966 29.807 1842 OG SER 866 5.888 30.247 1843 HG SER 866 5.865 31.207 1844 N SER 867 9.809 29.754 1844 N SER 867 9.809 29.754 1845 CA SER 867 9.617 28.788 1846 HN SER 867 9.617 28.788 1847 C SER 867 11.947 30.685 1848 O SER 867 12.641 31.546 1849 CB SER 867 11.053 28.960	12.687
1836 N SER 800 9.300 1837 CA SER 866 8.349 30.300 1838 HN SER 866 8.747 28.354 1839 C SER 866 9.238 30.709 1840 O SER 866 9.409 31.901 1841 CB SER 866 6.966 29.807 1842 OG SER 866 5.888 30.247 1842 N SER 866 5.865 31.207 1843 HG SER 866 5.865 31.207 1844 N SER 867 9.809 29.754 1844 N SER 867 10.722 30.160 1845 CA SER 867 9.617 28.788 1846 HN SER 867 11.947 30.685 1847 C SER 867 11.947 30.685 1848 O SER 867 12.641 31.546 1849 CB SER 867 11.053 28.960	16.289
1837 CA SER 366 8.747 28.354 1838 HN SER 866 8.747 28.354 1839 C SER 866 9.238 30.709 1840 O SER 866 9.409 31.901 1841 CB SER 866 6.966 29.807 1842 OG SER 866 5.888 30.247 1843 HG SER 866 5.865 31.207 1844 N SER 867 9.809 29.754 1844 N SER 867 9.617 28.788 1846 HN SER 867 9.617 28.788 1847 C SER 867 11.947 30.685 1848 O SER 867 12.641 31.546 1849 CB SER 867 11.053 28.960	17.178
1838 HN SER 866 9.238 30.709 1839 C SER 866 9.409 31.901 1840 O SER 866 9.409 31.901 1841 CB SER 866 6.966 29.807 1842 OG SER 866 5.888 30.247 1843 HG SER 866 5.865 31.207 1844 N SER 867 9.809 29.754 1844 N SER 867 10.722 30.160 1845 CA SER 867 9.617 28.788 1846 HN SER 867 11.947 30.685 1847 C SER 867 11.947 30.685 1848 O SER 867 12.641 31.546 1849 CB SER 867 11.053 28.960	16.378
25 1840 O SER 866 9,409 31,901	18.333
25 1840 O SER 866 6.966 29.807 1841 CB SER 866 5.888 30.247 1842 OG SER 866 5.865 31.207 1843 HG SER 866 5.865 31.207 1844 N SER 867 9.809 29.754 1845 CA SER 867 10.722 30.160 1846 HN SER 867 9.617 28.788 1847 C SER 867 11.947 30.685 1848 O SER 867 12.641 31.546 1849 CB SER 867 11.053 28.960 1849 CB SER 867 19.995 28.652	18.572
1841 CB SER 866 5.888 30.247 1842 OG SER 866 5.865 31.207 1843 HG SER 866 5.865 31.207 1844 N SER 867 9.809 29.754 1845 CA SER 867 10.722 30.160 1846 HN SER 867 9.617 28.788 1847 C SER 867 11.947 30.685 1848 O SER 867 12.641 31.546 1849 CB SER 867 11.053 28.960	17.672
1842 OG SER 866 5.865 31.207 1843 HG SER 866 5.865 31.207 1844 N SER 867 9.809 29.754 1845 CA SER 867 10.722 30.160 1846 HN SER 867 9.617 28.788 1847 C SER 867 11.947 30.685 1848 O SER 867 12.641 31.546 1849 CB SER 867 11.053 28.960	16.838
1843 HG SER 860 9.809 29.754 1844 N SER 867 9.809 29.754 1845 CA SER 867 10.722 30.160 1846 HN SER 867 9.617 28.788 1847 C SER 867 11.947 30.685 1848 O SER 867 12.641 31.546 1849 CB SER 867 11.053 28.960	16.881
30 1844 N SER 367 10.722 30.160 1845 CA SER 867 9.617 28.788 1846 HN SER 867 11.947 30.685 1847 C SER 867 12.641 31.546 1848 O SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960 1849 CB SER 867 19.995 28.652 1848 CE SER 10.72	19.059
30 1845 CA SER 867 9.617 28.788 1846 HN SER 867 9.617 28.788 1847 C SER 867 11.947 30.685 1848 O SER 867 12.641 31.546 1849 CB SER 867 11.053 28.960 1849 CB SER 867 19.995 28.652	20.111
1846 HN SER 367 30.685 1847 C SER 867 11.947 30.685 1848 O SER 867 12.641 31.546 1849 CB SER 867 11.053 28.960 1849 CB SER 867 9.995 28.652	18.886
1847 C SER 667 12.641 31.546 1848 O SER 867 11.053 28.960 1849 CB SER 867 11.053 28.960 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19.428
1848 O SER 867 11.053 28.960 1849 CB SER 867 9.995 28.652	19.946
1849 CB SER 807 9.995 28.652	21.034
	21.947
1850 OG SER 967 9.881 29.413	22.523
35 1851 HG SER 300 12 253 30 159	18.260
1852 N GLN 969 13 429 30.674	17.628
1853 CA GLN 300 11 696 29 443	17.839
1854 HN GLN 600 13 220 32 139	17.268
1855 C GLN 666 14 184 32,906	17.281
40 1856 O GEN 300 12.782 29.864	16.398
1857 CB GLN 800 15 120 30 259	15.832
1858 CG GLN 909 15 367 29 609	14.501
1859 CD GLN 900 156.487 29.631	13.990
1860 OE1 OEN 369 14 293 29 030	13.788
45 1861 NE2 GLN 306 14.473 28.624	12.884
1862 1HE2 GLN 600 112 386 28 925	14.210
1863 ZHEZ GLIV 960 11 988 32.524	16.962
1864 N ARC 960 11656 33.911	16.585
1865 CA ARG 809 11 254 21 846	16.990
50 1866 HN ARG 000 11 898 34 813	17.795
1867 C ARG 000 12,635 35,796	17.748
1868 O ARG 869 12,033 33,196	16.157
1869 CB ANG 860 9698 35.261	
1870 CG ARG 869 9.698 35.261	15.556

	[1071	T 070	1450	1000	110.251	25.566	114000
	1871	CD	ARG	869	10.351	35.566	14.227
	1872	NE NE	ARG	869	9.769	36.777	13.671
5	1873	CZ	ARG	869	10.332	37.527	12.738
3	1874	NH1	ARG	869	11.508	37.098	12.207
	1875	1HH1	ARG	869	11.954	37.643	11.499
	1876	2HH1	ARG	869	11.914	36.244	12.526
	1877	NH2	ARG	869	9.731	38.655	12.360
	1878	1HH2	ARG	869	10.147	39.221	11.648
10	1879	2HH2	ARG	869	8.870	38.930	12.797
	1880	HE	ARG	869	8.876	37.064	14.019
	1881	N	PHE	870	11.216	34.450	18.875
	1882	CA	PHE	870	11.306	35.136	20.138
	1883	HN	PHE	870	10.612	33.655	18.811
15	1884	С	PHE	870	12.763	35.347	20.485
	1885	0	PHE	870	13.213	36.472	20.731
	1886	CB	PHE	870	10.664	34.278	21.208
	1887	CG	PHE	870	10.554	34.946	22.519
	1888	CD1	PHE	870	9.942	36.188	22.618
	1889	CE1	PHE	870	9.787	36.809	23.842
20	1890	CZ	PHE	870	10.246	36.185	24.997
	1891	CE2	PHE	870	10.864	34.944	24.911
	1892	CD2	PHE	870	11.014	34.328	23.668
	1893	N	TYR	871	13.497	34.247	20.513
	1894	CA	TYR	871	14.903	34.289	20.828
25	1895	HN	TYR	871	13.067	33.367	20.311
	1896	С	TYR	871	15.591	35.350	19.966
	1897	0	TYR	871	16.340	36.174	20.483
	1898	CB	TYR	871	15.511	32.908	20.612
	1899	CG	TYR	871	16.992	32.859	20.832
30	1900	CD1	TYR	871	17.532	32.722	22.110
	1901	CE1	TYR	871	18.910	32.720	22.307
	1902	CZ	TYR	871	19.747	32.857	21.210
	1903	OH	TYR	871	21.112	32.882	21.399
	1904	нн	TYR	871	21.530	32.623	20.569
35	1905	CE2	TYR	871	19.221	32.991	19.936
33	1906	CD2	TYR	871	17.858	32.988	19.756
	1907	N	GLN	872	15.322	35.361	18.668
	1908	CA	GLN	872	15.950	36.355	17.800
	1909	HN	GLN	872	14.689	34.689	18.283
	1910	C	GLN	872	15.405	37.765	18.019
40	1911	0	GLN	872	16.168	38.739	18.044
	1912	CB	GLN	872	15.752	36.015	16.334
	1913	CG	GLN	872	16.086	34.612	15.954
	1914	CD	GLN	872	15.869	34.395	14.479
	1915	OE1	GLN	872	14.744	34.153	14.025
45	1916	NE2	GLN	872	17.014	34.493	13.651
	1917	1HE2	GLN	872	16.916	34.308	12.664
	1918	2HE2	GLN	872	17.927	34.643	14.051
	1919	N	LEU	873	14.087	37.895	18.144
	1920	CA	LEU	873	13.550	39.228	18.350
50	1921	HN	LEU	873	13.484	37.099	18.097
30	1922	C	LEU	873	14.160	39.797	19.635
	1923	ō	LEU	873	14.722	40.892	19.626
	1924	CB	LEU	873	12.014	39.207	18.390
	1925	CG	LEU	873	11.357	38.916	17.031
		·					
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				1000	9.854	39.038	17.129
	1926	CD1	LEU	873	11.877	39.897	15.993
	1927	CD2	LEU	873	14.099	39.033	20.723
	1928	N	THR	874	14.656	39.500	21.990
	1929	CA	THR	874	13.668	38.132	20.673
	1930	HN	THR	874		39.693	21.962
	1931	C	THR	874	16.176	40.269	22.890
	1932	0	THR	874	16.755	38.558	23.132
	1933	CB	THR	874	14.289	37.228	22,968
	1934	OG1	THR	874	14.757	36.794	23.817
	1934	HG1	THR	874	14.602	38.552	23.335
		CG2	THR	874	12.779		20.908
	1936	N N	LYS	875	16.830	39.216	20.817
	1937	CA	LYS	875	18.270	39.397	20.182
	1938	HN	LYS	875	16.336	38.737	20.335
	1939		LYS	875	18.456	40.826	
	1940	<u>C</u>	LYS	875	19.326	41.553	20.810
	1941	0	LYS	875	18.892	38.425	19.817
	1942	CB	LYS	875	20.365	38.109	20.110
	1943	CG	LYS	875	20.502	37.119	21.279
	1944	CD	LYS	875	21.960	36.934	21.747
)	1945	CE		875	22.157	35.824	22.770
	1946	NZ	LYS	875	21.494	35.952	23.548
	1947	HZ1	LYS	875	21.990	34.911	22.324
	1948	HZ2	LYS	875	23.093	35.856	23.121
	1949	HZ3	LYS	876	17.603	41.223	19.396
5	1950	N	LEU	876	17.636	42.566	18.843
	1951	CA	LEU		16.918	40.577	19.059
	1952	HN	LEU	876	17.397	43.581	19.962
	1953	C	LEU	876	18.051	44.628	20.021
	1954	0	LEU	876	16.554	42.714	17.782
	1955	CB	LEU	876	16.934	43.629	16.630
30	1956	CG	LEU	876	15.660	44.226	16.085
	1957	CD1	LEU	876	17.893	44.732	17.085
	1958	CD2	LEU	876	16.452	43.267	20.842
	1959	N	LEU	877		44.140	21.963
	1960	CA	LEU	877	16.140	42.412	20.731
35	1961	HN	LEU	877	15.944	44,403	22.790
	1962	C	LEU	877	17.380		22.950
	1963	Ö	LEU	877	17.777	45.549	22.829
	1964	CB	LEU	877	15.043	43.513	22.073
		CG	LEU	877	13.715		22.926
40	1965	CD1	LEU	877	12.588	43.029	21.639
40	1966	CD1	LEU	877	13.447	44.988	23.298
	1967	N N	ASP	878	18.000	43.343	24.125
	1968		ASP	878	19.198	43.467	
	1969	CA	ASP	878	17.635	42.432	23.108
	1970	HN	ASP	878	20.328	44.239	23.470
45	1971	c	ASP	878	21.123	44.895	24.145
	1972	0	ASP	878	19.733	42.092	24.495
	1973	СВ		878	18.831	41.367	25.445
	1974	CG	ASP	878	17.986	42.034	26.080
	1975	OD1	ASP	878	18.972	40.138	25.571
50	1976	OD2	ASP		18.343	39.811	26.197
50	1977	HD2	ASP	878	20.400	44.149	22.152
	1978	N	ASN	879	21.459	44.813	21.411
	1979	CA	ASN	879	19.715	43.614	21.657
	1980	HN	ASN	879	19./13		

	1981	С	ASN	879	21.137	46.275	21.164
	1982	0	ASN	879	21.914	47.011	20.551
	1983	CB	ASN	879	21.683	44.063	20.066
5	1984	CG	ASN	879	21.183	44.755	18.793
	1985	OD1	ASN	879	21.933	45.363	18.044
	1986	ND2	ASN	879	19.908	44.712	18.513
	1987	1HD2	ASN	879	19.659	45.328	17.734
	1988	2HD2	ASN	879	19.297	44.276	19.204
10	1989	N	LEU	880	19.975	46.683	21.653
	1990	CA	LEU	880	19.505	48.049	21.499
	1991	HN	LEU	880	19.402	46.028	22.145
	1992	C	LEU	880	20.218	48.908	22.537
	1993	0	LEU	880	20.382	50.115	22.363
15	1994	СВ	LEU	880	17.967	48.063	21.730
,,,	1995	CG	LEU	880	17.118	49.090	20.933
	1996	CD1	LEU	880	17.370	48.929	19.428
	1997	CD2	LEU	880	15.612	48.968	21.222
	1998	N	HIS	881	20.637	48.265	23.626
	1999	CA	HIS	881	21.366	48.965	24.663
20	2000	HIN	HIS	881	20.445	47.289	23.728
	2001	C	HIS	881	22.677	49.372	24.018
	2002	0	HIS	881	23.069	50.525	24.094
	2003	CB	HIS	881_	21.625	48.058	25.868
	2004	CG	HIS	881	20.434	47.892	26.767
25	2005	ND1	HIS	881	19.932	46.661	27.114
	2006	CE1	HIS	881	18.881	46.823	27.903
	2007	NE2	HIS	881	18.691	48.114	28.080
	2008	HE2	HIS	881	17.945	48.535	28.652
	2009	CD2	HIS	881	19.648	48.811	27.381
30	2010	N	ASP	882	23.343	48.454	23.333
	2011	CA	ASP	882	24.594	48.867	22.735
	2012	HN	ASP	882	22.998	47.520	23.234
	2013	<u>C</u>	ASP	882	24.485	49.904	21.618
	2014	0	ASP	882	25.405	50.714	21.471
35	2015	CB	ASP	882	25.429	47.634	22.300
	2016	CG	ASP	882	26.949	47.831	22.199
	2017	OD1	ASP ASP	882 882	27.668	47.123	21.510
		OD2 HD2			27.396	48.890	22.939
	2019	N N	ASP LEU	882 883	28.333	48.968	22.844
40	2020	CA	LEU	883	23.418	50.978	20.817 19.804
	2022	HN	LEU	883	22.680	49.249	20.903
	2023	C	LEU	883	23.025	52.309	20.464
	2024	0	LEU	883	23.535	53.352	20.062
	2025	CB	LEU	883	22.497	50.703	18.565
45	2026	CG	LEU	883	21.601	49.435	18.580
	2027	CD1	LEU .	883	20.880	49.283	17.233
	2028	CD2	LEU	883	22.390	48.153	18.893
	2029	N N	VAL	884	22.176	52.274	21.495
	2030	CA	VAL	884	21.806	53.511	22.196
50	2031	HN	VAL	884	21.791	51.400	21.791
30	2032	C	VAL	884	23.037	54.118	22.876
	2033	ŏ	VAL	884	23.216	55.331	22.884
	2034	СВ	VAL	884	20.666	53.265	23.239
	2035	CG1	VAL	884	20.883	54.102	24.501
EE					• • • • • • • • • • • • • • • • • • • •		
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	2036	CG2	VAL	884	19.337	53.649	22.622
	2037	N	LYS	885	23.896	53.278	23.440
	2038	CA	LYS	885	25.100	53.795	24.070
5	2039	HN	LYS	885	23.716	52.295	23.431
J	2040	C	LYS	885	25.856	54.646	23.041
			LYS	885	26.084	55.831	23.258
	2041	0			25.988	52.630	24.587
	2042	СВ	LYS	885			25.445
	2043	CG	LYS	885	27.187	53.104	26.141
10	2044	CD	LYS	885	27.964	51.982	
	2045	CE	LYS	885	26.976	50.933	26.667
	2046	NZ	LYS	885	27.723	49.772	27.183
	2047	HZ2	LYS	885	28.586	50.074	27.649
	2048	HZ1	LYS	885	27.181	49.264	27.889
15	2049	HZ3	LYS	885	27.946	49.156	26.427
15	2050	N	GLN	886	26.216	54.045	21.909
	2051	CA	GLN	886	26.945	54.767	20.866
	2052	HN	GLN	886	25.985	53.083	21.768
	2053	С	GLN	886	26.165	55.928	20.329
	2054	0	GLN	886	26.734	56.902	19.834
20	2055	СВ	GLN	886	27.349	53.800	19.732
	2056	CG	GLN	886	28.246	52.587	20.145
	2057	CD	GLN	886	28.640	51.552	19.083
	2058	OE1	GLN	886	29.370	50.614	19.358
	2059	NE2	GLN	886	28.212	51.682	17.853
05			GLN	886	27.663	52.525	17.674
25	2060	2HE2			28.572	50.989	17.195
	2061	1HE2	GLN	886		55.851	20.484
	2062	N	LEU	887	24.856	56.947	20.040
	2063	CA	LEU	887	24.046		
	2064	HN	LEU	887	24.439	55.045	20.903
30	2065	C	LEU	887	24.106	58.077	21.040
	2066	0	LEU	887	24.103	59.242	20.645
	2067	CB	LEU	887	22.623	56.496	19.816
	2068	CG	LEU	887	22.595	56.012	18.381
	2069	CD1	LEU	887	21.174	55.720	18.026
25	2070	CD2	LEU	887	23.193	57.071	17.439
35	2071	N	HIS	888	24.181	57.749	22.328
	2072	CA	HIS	888	24.263	58.786	23.357
	2073	HN	HIS	888	24.182	56.786	22.595
	2074	C	HIS	888	25.637	59.455	23.422
	2075	0	HIS	888	25.708	60.682	23.529
40	2076	CB	HIS	888	23.881	58.215	24.732
	2077	CG	HIS	888	22.409	57.945	24.848
	2078	ND1	HIS	888	21.777	57.315	25.917
	2079	CE1	HIS	888	20.502	57.354	25.486
	2080	NE2	HIS	888	20.251	57.923	24.276
45	2081	CD2	HIS	888	21.500	58.309	23.864
45	2082	HE2	HIS	888	19.352	58.041	23.788
			LEU	889	26.721	58.682	23.357
	2083	N CA		889	28.044	59.302	23.396
	2084		LEU				
	2085	HN	LEU	889	26.630	57.688	23.284
50	2086	С	LEU	889	28.165	60.488	22.389
	2087	0	LEU	889	28.636	61.533	22.815
	2088	СВ	LEU	889	29.181	58.264	23.171
	2089	CG	LEU	889	29.449	57.220	24.288
	2090	CD1	LEU	889	28.805	57.678	25.604

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	2091	CD2	LEU	889	28.940	55.816	23.924
	2092	N	TYR	890	27.761	60.362	21.102
5	2093	CA	TYR	890	27.894	61.500	20.123
3	2094	HN	TYR	890	27.367	59.496	20.795
	2095	С	TYR	890	27.006	62.611	20.566
	2096	0	TYR	890	27.299	63.777	20.356
	2097	CB	TYR	890	27.462	61.227	18.625
	2098	CG	TYR	890	28.164	62.223	17.650
10	2099	CD1	TYR	890	27.744	62.487	16.309
	2100	CE1	TYR	890	28.494	63.375	15.472
	2101	CZ	TYR	890	29.624	63.996	16.007
	2102	ОН	TYR	890	30.353	64.863	15.221
	2103	HH	TYR	890	31.162	65.093	15.692
15	2104	CE2	TYR	890	30.014	63.735	17.301
	2105	CD2	TYR	890	29.297	62.872	18.095
	2106	N	CYS	891	25.909	62.247	21.191
	2107	CA	CYS	891	24.971	63.257	21.570
	2108	HN	CYS	891	25.735	61.284	21.397
20	2109	С	CYS	891	25.411	64.088	22.743
	2110	0	CYS	891	25.410	65.316	22.669
	2111	CB	CYS	891	23.625	62.607	21.821
	2112	SG	CYS	891	22.292	63.762	22.287
	2113	HG	CYS	891	21.160	63.081	22.481
25	2114	N	LEU	892	25.787	63.431	23.828
23	2115	CA	LEU	892	26.231	64.187	24.975
	2116	HN	LEU	892	25.765	62.431	23.853
	2117	C	LEU	892	27.389	65.064	24.502
	2118	0	LEU	892	27.345	66.291	24.619
	2119	CB	LEU	892	26.689	63.226	26.109
30	2120	CG	LEU	892	25.609	62.364	26.818
	2121	CD1	LEU	892	24.209	62.911	26.506
	2122	CD2	LEU	892	25.683	60.879	26.427
	2123	N	ASN	893	28.404	64.415	23.941
	2124	CA	ASN	893	29.581	65.087	23.411
35	2125	HN C	ASN	893 893	28.358	63.418	23.880
	2126		ASN		29.097	66.302	22.642
	2127	CB	ASN	893 893	29.026	67.386	23.195
	2128	CG	ASN ASN	893	30.335	64.103	22.470
	2130		ASN	893	32.504	64.465	22.099
40	2131	ND2	ASN	893	32.252	63.700 65.622	21.483
	2132	1HD2	ASN	893	33.260	65.701	22.475
	2132	2HD2	ASN	893	31.652	66.199	22.314
	2134 2135	N CA	THR	894 894	28.741 28.254	66.123	21.377
45	2136	HN	THR THR	894	28.807	67.246	20.590
	2137	C	THR	894	27.525	65.215 68.300	20.963
	2138	0	THR	894	27.814		21.446
	2139	СВ	THR	894	27.345	69.494	21.339
	2140	OG1	THR	894	26.339	66.758	19.467
50	2141	HG1	THR	894	26.534	65.975	20.047
50	2141	CG2	THR	894	28.154	65.064	19.806
	2142	N N				66.447	18.220
	2143	CA	PHE PHE	895 895	26.618 25.882	67.870	22.315
	2144					68.810	23.169
	2143	HN	PHE	895	26.433	66.890	22.389
55							

					126.754	69.636	24.119
	10046	C	PHE	895	26.754	70.750	24.493
	2146	0	PHE	895	26.385	68.056	23.988
	2147	СВ	PHE	895	24.841	68.928	24.928
	2148	CG	PHE	895	24.061	69.546	24.518
	2149	CD1	PHE	895	22.887	70.328	25.391
	2150		PHE	895	22.143	70.502	26.697
	2151	CE1	PHE	895	22.575		27.118
	2152	CZ	PHE	895	23.753	69.892	26.237
	2153	CE2	PHE	895	24.488	69.112	24.527
)	2154	CD2	ILE	896	27.893	69.086	25.426
,	2155	N		896	28.794	69.797	24.212
	2156	CA	ILE	896	28.136	68.169	
	2157	HN	ILE	896	30.000	70.348	24.666
	2158	C	ILE	896	31,141	70.250	25.129
	2159	0	ILE		29.230	68.835	26.605
5	2160	CB	ILE	896	28.050	68.095	27.313
	2161	CG1	ILE	896	30.071	69.563	27.700
		CG2	ILE	896	28.438	67.191	28.501
	2162	CD1	ILE	896		70.910	23.488
	2163	N	GLN	897	29.736	71.515	22.651
00	2164	CA	GLN	897	30.771	70.918	23.162
20	2165	HN	GLN	897	28.791	72.518	21.717
	2166		GLN	897	30.118	72.138	20.671
	2167	C	GLN	897	29.586		21.855
	2168	0	GLN	897	31.527	70.428	21.033
	2169	CB	GLN	897	32.767	70.911	19.904
25	2170	CG		897	33.307	70.024	19.214
	2171	CD	GLN	897	34.248	70.384	
	2172	OE1	GLN	897	32.742	68.872	19.651
	2173	NE2	GLN	897	31.918	68.661	20.217
	2174	2HE2	GLN	897	33.120	68.374	18.843
	2175	1HE2	GLN		27.960	71.999	21.407
30	2176	N	SER	898	26.923	72.646	20.604
	2177	CA	SER	898	27.704	71.536	22.256
	2178	HN	SER	898	27.240	74.059	20.113
	2179	C	SER	898	27.020	74.369	18.946
		0	SER	898		72.638	21.346
35	2180	CB	SER	898	25.579	73.390	22.558
00	2181	OG	SER	898	25.563	73.242	22.952
	2182	HG	SER	898	24.693	74.924	20.980
	2183		ARG	899	27.753	76.278	20.534
	2184	N CA	ARG	899	28.055		21.925
	2185	CA	ARG	899	27.929	74.649	19.523
40	2186	HN	ARG	899	29.194	76.268	18.539
	2187	C	ARG	899	29.169	77.014	21.725
	2188	0	ARG	899	28.395	77.183	
	2189	CB		899	27.341	77.160	22.830
	2190	CG	ARG	899	25.920	77.400	22.300
45	2191	CD	ARG	899	25.679	78.756	21.802
.5	2192	NE	ARG	899	25.625	79.845	22.569
	2193	CZ	ARG	899	25.713	79.793	23.932
	2194	NH1	ARG		25.662	80.613	24.501
	2195	1HH1	ARG	899	25.777	78.923	24.416
	2196	2HH1	ARG	899	25.471	81.061	21.972
50		NH2	ARG	899		81.909	22.499
	2197	1HH2	ARG	899	25.413	81.153	20.981
	2198	2HH2	ARG	899	25.387	78.874	20.818
	2199	L ZELEZ	ARG	899	25.546	1 /0.0/4	

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	2201	N	ALA	900	31.651	74.889	20.070
	2202	CA	ALA	900	32.565	75.329	19.028
	2203	HN	ALA	900	31.963	74.238	20.761
5	2204	С	ALA	900	31.840	74.738	17.822
	2205	0	ALA	900	31.805	75.321	16.735
	2206	CB	ALA	900	33.957	74.712	19.249
	2207	N	LEU	901	31.241	73.571	18.051
	2208	CA	LEU	901	30.508	72.855	17.019
10	2209	HN	LEU	901	31.297	73.172	18.966
	2210	С	LEU	901	29.275	73.631	16.592
	2211	0	LEU	901	28.923	73.650	15.414
	2212	СВ	LEU	901	30.124	71.437	17.530
	2213	CG	LEU	901	30.236	70.247	16.538
15	2214	CD1	LEU	901	30.568	68.956	17.298
15	2215	CD2	LEU	901	28.958	70.045	15.706
	2216	N	SER	902	28.605	74.242	17.558
	2217	CA	SER	902	27.445	75.073	17.258
	2218	HN	SER	902	28.899	74.133	18.507
	2219	C	SER	902	26.110	74.426	16.874
20	2220	o	SER	902	25.281	75.109	16.273
	2221	CB	SER	902	27.808	76.071	16.151
	2222	OG	SER	902	28.887	76.954	16.451
	2223	HG	SER	902	29.185	77.309	15.605
	2224	N	VAL	903	25.875	73.154	17.179
25	2225	CA	VAL	903	24.579	72.558	16.829
	2226	HN	VAL	903	26.574	72.608	17.642
	2227	C	VAL	903	23.634	72.822	18.011
	2228	ő	VAL	903	24.083	72.826	19.154
	2229	CB	VAL	903	24.709	71.008	16.548
00	2230	CGI	VAL	903	25.798	70.582	15.525
30	2231	CG2	VAL	903	24.985	70.162	17.815
	2232	N N	GLU	904	22.347	73.037	17.745
	2233	CA	GLU	904	21.379	73.348	18.812
	2234	HN	GLU	904	22.030	72.987	
	2235	C	GLU	904	20.246	72.324	16.798 19.082
35	2236	0	GLU	904	19.542	71.921	18.159
	2237	СВ	GLU	904	20.743	74.726	18.525
	2238	CG	GLU	904	21.151	75.892	19.461
	2239	CD	GLU	904	22.541	76.479	19.185
	2240	OE1	GLU	904	22.754	77.073	18.098
40	2241	OE2	GLU	904	23.424	+	
	2242	HE2	GLU	904	24.226	76.353	20.069
	2243	N N	PHE	905	20.068	76.756	19.773
						71.932	20.351
	2244	CA	PHE	905	19.009	70.985	20.761
45	2245	HN	PHE	905	20.680	72.297	21.053
43	2246	C	PHE	905	17.830	71.786	21.373
	2247	0	PHE	905	18.056	72.736	22.126
	2248	CB	PHE	905	19.546	69.991	21.809
	2249	CG	PHE	905	20.908	69.434	21.491
	2250	CD1	PHE	905	21.053	68.195	20.896
50	2251	CE1	PHE	905	22.302	67.717	20.598
	2252	CZ	PHE	905	23.450	68.464	20.853
	2253	CE2	PHE	905	23.313	69.690	21.437
	2254	CD2	PHE	905	22.044	70.175	21.759
	2255	N	PRO	906	16.568	71.401	21.088
55							

					15 415	72.135	21.630
	2256	CA	PRO	906	15.415	70.141	20.461
	2257	CD	PRO	906	16.114	72.062	23.145
	2258	С	PRO	906	15.251	71.609	23.854
5	2259	0	PRO	906	16.142	71.504	20.899
	2260	СВ	PRO	906	14.241	70.083	20.855
	2261	CG	PRO	906	14.638	72,520	23.629
	2262	N	GLU	907	14.098	72.507	25.059
	2263	CA	GLU	907	13.795	72.885	22.994
10	2264	HN	GLU	907	13.418	71.099	25.612
10	2265	C	GLU	907	13.842	70.779	26.492
	2266	0	GLU	907	14.652	73.087	25.305
	2267	CB	GLU	907	12.359	74.589	25.235
	2268	CG	GLU	907		75.215	26.243
	2269	CD	GLU	907	13.301	74.896	26.220
15	2270	OE1	GLU	907	14.508	76.021	27.067
	2271	OE2	GLU	907	12.832	76.333	27.631
	2272	HE2	GLU	907	13.523	70.271	25.087
	2273	N	MET	908	12.948	68.895	25.507
	2274	CA	MET	908	12.320	70.609	24.386
20	2275	HN	MET	908	14.249	68.252	25.562
	2276	C	MET	908	14.870	68,271	26.618
	2277	0	MET	908	11.912	68.116	24.584
	2278	CB	MET	908	10.604	67.677	25.273
	2279	CG	MET	908	10.728	67.416	27.096
25	2280	SD	MET	908	11.156	65.740	27.227
	2281	CE	MET	908	14.758	67.722	24.452
	2282	N	MET	909	16.077	67.061	24.448
	2283	CA	MET	909	14.235	67.774	23.601
	2284	HN	MET	909	17.170	67.737	25.237
30	2285	C	MET	909	18.035	67.069	25.802
00	2286	0	MET	909	16.519	66.828	22.977
	2287	CB	MET	909	17.899	66.165	22.784
	2288	CG	MET	909	18.232	65.948	21.029
	2289	SD	MET	909	19.853	65.180	21.158
0.5	2290	CE	MET	910	17.158	69.058	25.252
35	2291	N	SER	910	18.176	69.798	25.976
	2292	CA	SER	910	16.441	69.553	24.759
	2293	HN	SER	910	18.197	69.481	27.480
	2294	C	SER SER	910	19.277	69.320	28.049
	2295	0	SER	910	17.984	71.313	25.716
40	2296	CB	SER	910	16.821	71.846	26.359
	2297	OG	SER	910	16.055	71.406	25.978
	2298	HG	GLU	911	17.014	69.378	28.106
	2299	N	GLU	911	16.852	69.103	29.554
	2300	CA	GLU	911	16.185	69.496	27.559
45	2301	HN	GLU	911	17.169	67.641	29.921
	2302	0	GLU	911	17.828	67.362	30.929
	2303		GLU	911	15.399	69.460	30.000
	2304	CB	GLU	911	15.156	69.773	31.529
	2305	CG	GLU	911	14.687	71.232	31.813
50	2306	OE1	GLU	911	15.306	72.174	31.267
	2307		GLU	911	13.718	71.441	32.590
	2308	OE2 HE2	GLU	911	13.562	72.371	32.656
	2309	N HEZ	VAL	912	16.693	66.718	29.088
	2310						

	2311	CA	VAL	912	16.907	65.293	29.296
	2312	HN	VAL	912	16.168	67.015	28.290
	2313	C	VAL	912	18.373	64.971	29.082
5	2314	0	VAL	912	18.964	64.230	29.866
	2315	СВ	VAL	912	15.999	64.466	28.300
	2316	CG1	VAL	912	14.508	64.893	28.211
	2317	CG2	VAL	912	16.511	64.465	26.839
	2318	N	ILE	913	18.973	65.514	28.026
10	2319	CA	ILE	913	20.389	65.246	27.825
70	2320	HN	ILE	913	18.465	66.091	27.387
	2321	C	ILE	913	21.054	65.695	29.123
	2322	lö	ILE	913	21.556	64.862	29.876
	2323	СВ	ILE	913	20.963	66.006	26.611
	2324	CG2	ILE	913	22.463	65.834	26.555
15	2325	CG1	ILE	913	20.385		
	2326					65.418	25.322
		CD1	ILE	913	20.604	66.257	24.089
	2327	N	ALA	914	21.002	67.001	29.398
	2328	CA	ALA	914	21.566	67.613	30.615
20	2329	HN	ALA	914	20.554	67.602	28.736
	2330	<u> C</u>	ALA	914	21.374	66.795	31.884
	2331	0	ALA	914	22.286	66.672	32.706
	2332	CB	ALA	914	20.967	69.026	30.719
	2333	N	ALA	915	20.169	66.272	32.061
	2334	CA	ALA	915	19.888	65.470	33.231
25	2335	HN	ALA	915	19.452	66.433	31.384
	2336	C	ALA	915	20.679	64.169	33.202
	2337	0	ALA	915	21.380	63.839	34.153
	2338	СВ	ALA	915	18.369	65.242	33.315
	2339	N	GLN	916	20.582	63.445	32.093
30	2340	CA	GLN	916	21.263	62.164	31.955
	2341	HN	GLN	916	20.028	63.787	31.334
	2342	С	GLN	916	22.784	62.163	31.856
	2343	0	GLN	916	23.422	61.208	32.299
	2344	CB	GLN	916	20.717	61.415	30.737
35	2345	CG	GLN	916	19.253	61.040	30.828
	2346	CD_	GLN	916	18.940	60.208	32.056
	2347	OE1	GLN	916	19.638	59.237	32.361
	2348	NE2	GLN	916	18.007	60.708	32.969
	2349	1HE2	GLN	916	17.720	60.104	33.720
	2350	2HE2	GLN	916	17.531	61.588	32.810
40	2351	N	LEU	917	23.371	63.214	31.288
	2352	CA	LEU	917	24.819	63.244	31.093
	2353	HN	LEU	917	22.816	63.991	30.991
	2354	C	LEU	917	25.674	62.568	32.174
	2355	0	LEU	917	26.442	61.655	31.866
45	2356	СВ	LEU	917	25.308	64.696	30.824
	2357	CG	LEU	917	24.629	65.496	29.680
	2358	CD1	LEU	917	25.512	65.475	28.425
	2359	CD2	LEU	917	23.227	64.967	29.336
	2360	N	PRO	918	25.556	62.991	33.449
50	2361	CA	PRO	918	26.384	62.331	34.468
30	2362	CD	PRO	918	24.669	63.995	34.066
	2363	C	PRO	918	26.046	60.853	34.659
	2364	ō	PRO	918	26.772	59.978	34.194
	2365	СВ	PRO	918	26.109	63.164	35.722
!	······································						
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				T-12	24.691	63.591	35.528
	2366	CG	PRO	918	24.927	60.589	35.323
	2367	N	LYS	919	24.463	59.233	35.620
	2368	CA	LYS	919	24.371	61.358	35.638
	2369	HN	LYS	919	24.606	58.128	34.550
	2370	c	LYS	919	24.720	56.946	34.900
	2371	0	LYS	919	22.997	59.291	36.064
	2372	CB	LYS	919	22.030	59.560	34.928
	2373	CG	LYS	919	20.583	59.336	35.345
	2374	CD	LYS	919	20.083	60.442	36.262
0	2375	CE	LYS	919	18.618	60.349	36.653
		NZ	LYS	919		61.297	36.750
	2376	HZ1	LYS	919	18.227	59.837	35.926
	2377	HZ2	LYS	919	18.100	59.864	37.524
	2378	HZ3	LYS	919	18.536	58.493	33.265
5	2379	N N	ILE	920	24.591	57.512	32.172
	2380	CA	ILE	920	24.699	59.463	33.038
	2381	HN	ILE	920	24.503	56.939	31.960
	2382	$\frac{1}{C}$	ILE	920	26.087	55.800	32.329
	2383	0	ILE	920	26.377	58.173	30.852
00	2384	CB	ILE	920	24,127		30.312
20	2385	CG1	ILE	920	22.815	57.520	29.690
	2386		ILE	920	25.168	58.202	30.490
	2387	CG2	ILE	920	21.527	58.350	31.330
	2388	CD1	LEU	921	26.923	57.761	30.985
	2389	N	LEU	921	28.299	57.423	31.076
25	2390	CA	LEU	921	26.586	58.668	31.867
	2391	HN	LEU	921	28.969	56.365	31.351
	2392	C	LEU	921	29.557	55.412	30.925
	2393		LEU	921	29.155	58.720	32.228
	2394	CB	LEU	921	29.319	59.549	31.938
30	2395	CG	LEU	921	30.099	60.839	32.886
	2396	CD1	LEU	921	27.973	59.894	33.185
	2397	CD2	ALA	922	28.866	56.524	
	2398	N	ALA	922	29.474	55.585	34.132
	2399	CA	ALA	922	28.358	57.309	33.540
	2400	HN		922	28.974	54.145	33.984
35	2401	C	ALA	922	29.703	53.261	33.522
	2402	0	ALA	922	29.258	56.148	35.547
	2403	CB	ALA	923	27.727	53.925	34.405
	2404	N	GLY	923	27.115	52.605	34.341
	2405	CA	GLY	923	27.198	54.688	34.776
40	2406	HN	GLY	923	26.426	52.237	35.647
	2407	C	GLY	923	26.387	51.071	36.044
	2408	0	GLY	924	25.866	53.251	36.308
	2409	N	MET		25.182	53.106	37.593
	2410	CA	MET	924	25.916	54.163	35.901
45	2411	HN	MET	924	23.656	52.955	37.392
45	2412	C	MET	924	22.851	53.294	38.269
	2413	0	MET	924	25.507	54.360	38.450
	2414	CB	MET	924	26.778	55.139	38.049
	2415	CG	MET	924	26.396	56.892	37.892
	2415	SD	MET	924	27.901	57.420	37.064
50	2417	CE	MET	924	23,302	52.427	36.214
		N	VAL	925		52.172	35.734
	2418	CA	VAL	925	21.930	52.172	35.594
	2419	HN	VAL	925	24.046	JZ.119	

	2421	С	VAL	925	21.829	50.671	35.391
	2422	0	VAL	925	22.810	50.084	34.932
	2423	CB	VAL	925	21.666	53.060	34.453
5	2424	CG1	VAL	925	21.087	54.480	34.706
	2425	CG2	VAL	925	22.920	53.281	33.574
	2426	N	LYS	926	20.666	50.053	35.581
	2427	CA	LYS	926	20.552	48.628	35.274
	2428	HN	LYS	926	19.878	50.558	35.931
10	2429	С	LYS	926	19.777	48.267	34.014
	2430	0	LYS	926	18.544	48.228	34.010
	2431	CB	LYS	926	19.948	47.873	36.448
	2432	CG	LYS	926	19.773	46.377	36.216
	2433	CD	LYS	926	18.912	45.841	37.339
15	2434	CE	LYS	926	18.473	44.409	37.153
15	2435	NZ	LYS	926	17.517	43.918	38.231
	2436	HZ1	LYS	926	16.988	44.716	38.611
	2437	HZ2	LYS	926	16.862	43.235	37.825
	2438	HZ3	LYS	926	18.038	43.483	38.966
	2439	N	PRO	927	20.529	47.980	32.960
20	2440	CA	PRO	927	19.971	47.592	31.674
	2441	C	PRO	927	19.437	46.168	31.795
	2442	0	PRO	927	20.208	45.247	32.038
	2443	CB	PRO	927	21.082	47.730	30.622
	2444	CG	PRO	927	22.370	47.475	31.420
25	2445	CD	PRO	927	22.089	48.145	32.767
	2446	N	LEU	928	18.132	45.976	31.641
	2447	CA	LEU	928	17.573	44.628	31.718
	2448	HN	LEU	928	17.530	46.756	31.472
	2449	С	LEU	928	17.956	43.896	30.438
30	2450	0	LEU	928	17.995	44.499	29.370
	2451	СВ	LEU	928	16.059	44.688	31.811
	2452	CG	LEU	928	15.563	45.735	32.794
	2453	CD1	LEU	928	14.058	45.677	32.854
	2454	CD2	LEU	928	16.163	45.484	34.161
35	2455	N	LEU	929	18.239	42.605	30.527
	2456	CA	LEU	929	18.602	41.856	29.326
	2457	HN	LEU	929	18.205	42.144	31.413
	2458	C	LEU	929	17.790	40.570	29.208
	2459	0	LEU	929	17.364	40.025	30.218
40	2460	CB	LEU	929	20.098	41.528	29.346
	2461	CG	LEU	929	21.046	42.715	29.164
	2462	CD1	LEU	929	22.449	42.196	28.955
	2463	CD2	LEU	929	20.639	43.537	27.954
	2464	N	PHE	930	17.547	40.099	27.984
	2465	CA	PHE	930	16.801	38.847	27.812
45	2466	HN	PHE	930	17.874	40.599	27.182
	2467	C	PHE	930	17.772	37.692	27.803
	2468	0	PHE	930	17.483	36.618	28.320
	2469	CB	PHE	930	16.012	38.831	26.509
	2470	CD1	PHE	930	14.783	39.658	26.558
50	2471	CD1	PHE	930	13.647	39.198	27.206
	2472 2473	CE1 CZ	PHE	930	12.534	40.005	27.331
	2474		PHE	930	12.552	41.283	26.807
	2474	CE2	PHE	930	13.680 14.787	41.743	26.155
	2413	CD2	PHE	930	14./0/	40.933	26.035
EE							

					T	37.930	27.198
			777	931	18.925	36.938	27.104
ſ	0476	N	HIS	931	19.985		26.789
	2476	CA	HIS	931	19.079	38.830 37.571	27.755
	2477	HN	HIS	931	21.218		27.432
	2478	C	HIS	931	21.562	38.710	25.631
	2479	0	HIS	931	20.300	36.628	24.792
	2480	СВ	HIS	931	19.093	36.359	25.058
	2481	CG	HIS		18.209	35.328	24.154
	2482	ND1	HIS	931	17.249	35.325	23.306
	2483	CE1	HIS		17.472	36.322	22.496
	2484	NE2	HIS	931	16.883	36.563	23.686
	2485	HE2	HIS	931	18.612	36.976	28.668
	2486	CD2	HIS	931	21.870	36.851	29.332
	2487	N	LYS	932	23.078	37.366	28.907
	2488	CA	LYS	932	21.531	35.941	28.518
	2489	HN	LYS	932	24.313	36.931	29.006
	2490	C	LYS	932	25.424	37.309	28,245
	2491		LYS	932	24.485	35.702	30.789
	2492	OXT	LYS	932	23.155	36.832	
	2493	10 CB	LYS	932	23.857	35.456	30.904
	2494	CB	LYS	932	25.374	35.521	
+	2495	CG	LYS	932	25.987	34.158	30.750
	2496	CD	LYS	932	27.457	34.263	30.767
	2497	CE	LYS	932	27.766	34.889	31.519
	2498	NZ	LYS	932	27.893	33.354	30.955
	2499	HZ2	LYS	932	$\frac{27.893}{27.777}$	34.611	29.886
25	2500	HZ1	LYS	932	14.371	60.020	15.893
.0	2501	HZ3	RWJ	1	15.944	60.715	16.157
	2502	CL1	RWJ	1	17.076	59.893	16.188
	2503	C2	RWJ	1	16.933	58.402	15.993
	2504	C3	RWJ	1		57.827	17.160
	2505	C4	RWJ	1	16.659	57.907	15.510
30	2506	F5	RWJ	1	18.068	58.160	15.137
	2507	F6	RWJ	1	15.944	60.452	16.400
	2508	F7	RWJ	1	18.342	61.834	16.581
	2509	C8	RWJ	1	18.475	62.425	16.805
	2510	C9	RWJ	1	19.813	61.627	17.080
35	2511	C10	$\frac{RWJ}{RWJ}$	1	20.828	62.087	17.319
	2512	N11	RWJ	1	22.183	60.945	16.624
	2513	N12		1	23.312	59,613	16.851
	2514	S13	RWJ RWJ	1	22.844	61.111	17.236
	2515	O14		$-\frac{1}{1}$	24.594	61.246	14.814
40	2516	015	RWJ	- 1	23.453	62.130	14.325
40	2517	C16	RWJ	1	24.421	(2.259	
	2518	C17	RWJ	$-+\frac{1}{1}$	24.528	C1 702	12.060
	2519	C18	RWJ		23.667	62.045	0.005
	2520	C19	RWJ	-+i	23.827	(0.010	1 10 550
	2521	120	RWJ		22.698		12 027
45	2522	C21	RWJ		22.59		
	2522	C22	RWJ		22.44		17.247
		022	RWJ		23.81	2 63.92	17.105
	2524	604	RWJ		21.35	2 64.42	16713
	2525	005	RWJ		19.97	7 63.92	16.550
50	2526		RW.	1	17.34	3 62.63	16 227
50	2527	- 207	2017	1	16.0		97 10.337
	2528	1 021	RW		10.0		

TABLE 6 SUBSET OF ATOMIC COORDINATES OF GR α IN COMPLEX WITH THE BENZOXAZIN-1-ONE OBTAINED FROM MODELING OF THE CRYSTAL STRUCTURE OF GR α IN COMPLEX WITH FP

F-Avinture -	Avimus in the	itomino. Nemo	. iteatine		Topidnette	
NE WILLIAM		Service Services	Kumpan	Committee	(conjunitie)	-160001
1	N	LEU	544	5.940	62.649	11.764
2	CA	LEU	544	5.974	64.102	11.77
3	СВ	LEU	544	5.952	64.855	13.135
4	CG	LEU	544	6.701	64.350	14.400
5	CD1	LEU	544	6.322	65.241	15.616
6	CD2	LEU	544	6.415	62.880	14.786
7	C	LEU	544	7.164	64.437	10.826
8	0	LEU	544	8.239	63.851	10.879
9	HN	LEU	544	6.575	62.118	12.352
10	N	THR	556	26.585	69.651	7.255
11	CA	THR	556	26.781	68.735	8.382
12	CB	THR	556	28.265	68.599	8.879
13	OG1	THR	556	29.183	68.249	7.833
14	CG2	THR	556	28.366	67.548	10.003
15	С	THR	556	25.830	69.214	9.501
16	0	THR	556	24.880	68.495	9.743
17	HN	THR	556	27.395	69.596	6.643
18	HG1	THR	556	30.058	68.161	8.250
19	N	ILE	559	21.633	70.003	8.878
20	CA	ILE	559	20.880	68.737	8.871
21	CB	ILE	559	21.416	67.541	8.014
22	CG2	ILE	559	20.550	66.283	8.280
23	CG1	ILE	559	21.498	67.829	6.495
24	CD1	ILE	559	21.957	66.639	5.616
25	С	ILE	559	20.891	68.309	10.355
26	0	ILE	559	19.818	68.267	10.917
27	HN	ILE	559	22.559	69.900	8.462
28	N	MET	560	22.116	67.951	11.005
29	CA	MET	560	22.238	67.530	12.398
30	CB	MET	560	23.650	67.542	13.010
31	CG	MET	560	24.560	66.453	12.433
32	SD	MET	560	26.049	66.144	13.442
33	CE	MET	560	26.836	64.975	12.282
34	С	MET	560	21.376	68.480	13.244
35	0	MET	560	20.739	67.976	14.146
36	HN	MET	560	22.988	67,997	10.493
37	N	THR	562	18.442	70.366	12.296
38	CA	THR	562	16.979	69.979	12.264
39	СВ	THR	562	16.011	70.077	11.038
40	OG1	THR	562	16.263	69.083	10.049
41	CG2	THR	562	15.882	71.488	10.437
42	C	THR	562	16.792	68.531	12.863
43	ō	THR	562	15.662	68.207	13.197
44	HN	THR	562	18.984	70.366	11.451
45	HG1	THR	562	15,410	68.898	9.600

			LEU	563	17.916	67.661	12.989
	46	N		563	17.667	66.302	13.464
	47	CA	LEU	563	18,721	65.226	13.171
	48	CB	LEU	563	18.460	64.497	11.832
	49	CG	LEU		17.838	65.349	10.696
	50	CD1	LEU	563	19.764	63.838	11.363
	51	CD2	LEU	563	17.434	66.528	14.954
	52	C	LEU	563	16.437	66.052	15.458
	53	0	LEU	563		67.802	12.334
	54	HN	LEU	563	18.676	67.363	15.671
	55	N	ASN	564	18.322	67.789	17.027
	56	CA	ASN	564	17.960	68.818	17.707
	57	CB	ASN	564	18.861	68.431	17.754
		CG	ASN	564	20.332		17.111
	58	OD1	ASN	564	20.859	67.537	18.563
	59	ND2	ASN	564	21.098	69.270	17.099
	60	C	ASN	564	16.512	68.379	
	61		ASN	564	15.949	68.320	18.183
	62	0	ASN	564	19.184	67.712	15.267
	63	HN	ASN	564	22.013	69.437	18.178
	64	1HD2		564	20.718	70.064	19.073
	65	2HD2	ASN	565	15.876	68.982	15.969
	66	N	MET	565	14.505	69.517	16.086
	67	CA	MET	565	13.941	70.565	15.096
	68	CB	MET	565	13.884	71.995	15.667
	69	CG	MET		15.501	72.811	15.848
	70	SD	MET	565	14.936	74.510	16.210
	71	CE	MET	565	13.523	68.316	16.120
	72	С	MET	565	12.755	68.248	17.069
	73	0	MET	565	16.356	69.053	15.074
	74	HN	MET	565	13.511	67.417	15.005
	75	N	LEU	566	12.680	66.204	14.995
	76	CA	LEU	566		65.320	13.758
	77	СВ	LEU	566	12.958	64.218	13.505
	78	CG	LEU	566	11.899	64.760	13.312
	79	CD1	LEU	566	10.472	63.386	12.274
	80	CD2	LEU	566	12.276	65.372	16.314
	81	C	LEU	566	12.864		16.666
		- lö	LEU	566	11.991	64.589	14.256
	82	HN	LEU	566	14.194	67.502	17.074
	83	N	GLY	567	14.065	65.634	18.410
	84	CA	GLY	567	14.368	65.122	19.373
	85	C	GLY	567	13.395	65.818	
	86		GLY	567	12.470	65.164	19.815
	87	0	GLY	567	14.755	66.315	16.727
	88	HN		568	13.610	67.204	19.643
	89	N	GLY	568	12.543	67.993	20.319
	90	CA		568	11.085	67.356	20.210
5	91	C	GLY	568	10.571	66.926	21.229
	92	0	GLY	568	14.527	67.648	19.464
	93	HN	GLY		9,435	64.691	18.381
	94	N	GLN	570	9.047	63.293	18.600
	95	CA	GLN	570	9.949	62.264	17.954
_	96	CB	GLN	570	9.720	61.923	16.466
0	97	CG	GLN	570		60.509	16.247
	98	CD	GLN	570	10.263	59.737	15.440
	99	OE1	GLN	570	9.774		17.074
	100	NE2	GLN	570	11.375	60.181	17.074

							
	101	С	GLN	570	9.122	62.923	20.112
	102	0	GLN	570	8.291	62.153	20.562
_	103	HN	GLN	570	10.403	64.886	18.148
5	104	1HE2	GLN	570	11.793	59.248	17.045
	105	2HE2	GLN	570	11.654	60.884	17.791
	106	N	VAL	571	10.216	63.398	20.902
	107	CA	VAL	571	10.426	62.911	22.293
	108	CB	VAL	571	11.858	63.181	22.856
10	109	CG1	VAL	571	12.086	62.848	24.356
	110	CG2	VAL	571	12.908	62.362	22.069
	111	C	VAL	571	9.247	63.480	23.196
	112	0	VAL	571	9.117	63.034	24.321
	113	HN	VAL	571	10.991	63.862	20.446
15	114	N	TRP	600	14.536	57.459	26.142
	115	CA	TRP	600	14.286	58.373	25.033
	116	CB	TRP	600	14.536	59.885	25.241
	117	CG	TRP	600	15.942	60.382	25.547
	118	CD2	TRP	600	16.813	61.177	24.647
20	119	CE2	TRP	600	17.938	61.507	25.406
20	120	CE3	TRP	600	16.684	61.587	23.302
	121	CD1	TRP	600	16.677	60.278	26.692
	122	NE1	TRP	600	17.971	60.868	26.641
	123	CZ2	TRP	600	18.944	62.371	24.931
0.5	124	CZ3	TRP	600	17.722	62.405	22.786
25	125	CH2	TRP	600	18.804	62.836	23.600
	126	C	TRP	600	15.102	57.802	23.846
	127	0	TRP	600	14.500	57.522	22.826
	128	HN	TRP	600	14.723	57.833	27.064
	129	HE1	TRP	600	18.815	60.295	26.697
30	130	N	MET	601	16.503	57.579	23.980
	131	CA	MET	601	17.340	57.410	22.781
	132	CB CG	MET MET	601	18.846	57.418 57.697	23.119
	134	SD	MET	601	19.743	59.370	21.193
	135	CE	MET	601	20.712	60.293	22.193
35	136	C	MET	601	16.991	56.112	21.981
	137	10	MET	601	17.166	56.100	20.777
	138	HN	MET	601	16.954	58.108	24.708
	139	N	MET	604	13.789	56.337	20.103
	140	CA	MET	604	14.221	56.912	18.813
40	141	CB	MET	604	15.241	58.084	18.878
	142	CG	MET	604	14.883	59.305	19.753
	143	SD	MET	604	13,383	60.194	19.224
	144	CE	MET	604	12.124	59.378	20.277
	145	C	MET	604	14.836	55.772	17.917
45	146	ō	MET	604	14.376	55.567	16.809
	147	HN	MET	604	14.289	56.598	20.957
	148	N	ALA	605	16.001	55.112	18.403
	149	CA	ALA	605	16.978	54.442	17.507
	150	СВ	ALA	605	18.203	53.924	18.267
50	151	С	ALA	605	16.325	53.250	16.752
	152	Ō	ALA	605	16.626	52.982	15.592
	153	HN	ALA	605	16.380	55.356	19.311
	154	N	PHE	606	15.361	52.586	17.574
	155	CA	PHE	606	14.666	51.352	17.214
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	156	CB	PHE	606	13.830	50.825	18.391
	156	CG	PHE	606	13.363	49.414	
	157	CD1	PHE	606	14.303	48.329	18.243
_	158	CD2	PHE	606	11.979	49.117	18.032
5	159	CE1	PHE	606	13.894	46.982	17.629
	160	CE2	PHE	606	11.568	47.761	17.660
	161	CZ	PHE	606	12.541	46.700	16.029
	162	C	PHE	606	13.748	51.686	15.040
	163	Ö	PHE	606	13.790	50.980	18.530
0	164	HN	PHE	606	15.215	52.914	16.191
	165	N	ALA	607	12.903	52.830	15.284
	167	CA	ALA	607	11.863	53.392	15.994
		CB	ALA	607	10.919	54.387	13.996
	168	C	ALA	607	12.445	54.123	12.944
15	169	0	ALA	607	11.819	54.073	17.125
	170	HN	ALA	607	12.937	53.245	14.103
	171	N	LEU	608	13.643	54.902	12.889
	173	CA	LEU	608	14.415	55.258	13.015
	174	CB	LEU	608	15.872	55.766	11.672
20	175	CG	LEU	608	16.535	56.170	10.783
	176	CD1	LEU	608	15.564	56.947	11,876
	177	CD2	LEU	608	17.744	57.096	12.051
	178	C	LEU	608	14.527	53.974 53.955	10.899
	179	0	LEU	608	14.127	54.816	14,968
25	180	HN	LEU	608	14.169	52.871	12.762
25	181	N	GLY	609	15.072	51.566	12.135
	182	CA	GLY	609	15.130	51.185	11.368
	183	C	GLY	609	13.878	50.700	10.245
	184	0	GLY	609	13.970	52.896	13.770
	185	HN	GLY	609	15.265	53.198	10.162
30	186	N	ARG	611	10.368	53.648	8.778
	187	CA	ARG	611	9.869	55.007	8.239
	188	СВ	ARG	611	8.729	55,665	9.011
	189	CG	ARG	611	9.283	56.945	9.610
	190	CD	ARG	611	10.457	56.745	10.480
35	191	NE	ARG	611	10.437	57.593	11.582
	192	CZ	ARG	611	9.812	58.685	11.785
	193	NH1	ARG	611	11.554	57.401	12.563
	194	NH2	ARG	611	11.487	53.314	7.767
	195	C	ARG	611	11.211	53.119	6.594
40	196	0	ARG	611	11.128	53.875	10.893
	197	HN	ARG	611	11.063	55.964	10.255
	198	HE	ARG	611	9.920	59.306	12.572
	199	1HH1	ARG	611	9.092	58.880	11.120
	200	2HH1	ARG	611	11.603	58.057	13.338
45	201	1HH2	ARG	611	12.199	56.633	12.574
	202	2HH2	ARG	611	18.327	56.358	5.645
	203	N	LEU	621	17.892	56.466	7.047
	204	CA	LEU	621	18.922	57.150	7.968
	205	CB	LEU	621	20.091	56.281	8.447
50	206	CG	LEU	621	20.935	57.119	9.419
50	207	CD1	LEU	621	19.593	54.989	9.109
	208	CD2	LEU	621	16.629	57.328	6.938
	209	C	LEU	621	16.839	58.529	6.960
	210	0	LEU	621	10,000		

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	211	HN	LEU	621	19.234	56.744	5.456
	212	N	CYS	622	15.306	56.815	6.729
5	213	CA	CYS	622	14.234	57.828	6.639
3	214	CB	CYS	622	12.926	57.233	6.114
	215	SG	CYS	622	13.160	56.480	4.471
	216	C	CYS	622	14.056	58.457	8.070
	217	0	CYS	622	13.430	57.849	8.930
	218	HN	CYS	622	15.072	55.855	7.001
10	219	HG	CYS	622	13.936	55.462	4.807
	220	N	PHE	623	14.654	59.748	8.325
	221	CA CD	PHE	623	14.539	60.297	9.730
	222	CB	PHE	623 623	15.401	61.531	10.118
		CG	PHE		16.792	61.075	10.519
15	224	CD1	PHE	623	17.717	60.632	9.510
	225	CD2	PHE	623	17.211	61.046	11.907
	227	CE1 CE2	PHE	623	19.023	60.154	9.875
	228	CZ	PHE	623 623	18.543	60.603	12.269
	229	C	PHE PHE	623	19.450 13.037	60.148	11.243
20	230	0	PHE	623	12.538	60.486	11.136
	231	HN	PHE	623			
	232	N	ALA	624	15.054 12.406	60.333	7.580 8.853
	233	CA	ALA	624	11.113	61.720	8.500
	234	CB	ALA	624	11.040	63.230	8.800
25	235	C	ALA	624	11.040	61.564	6.937
	236	Ö	ALA	624	11.997	61.723	6.236
	237	HN	ALA	624	13.007	60.967	8.040
	238	N	ILE	629	18.455	60.562	4.653
	239	CA	ILE	629	19.897	60.753	4.531
30	240	CB	ILE	629	20.661	60.701	5.882
30	241	CG2	ILE	629	22.180	60.700	5.633
	242	CG1	ILE	629	20.202	61.914	6.757
	243	CD1	ILE	629	21.100	62.288	7.948
	244	C	ILE	629	20.234	59.677	3.467
	245	O	ILE	629	20.440	58.503	3.743
35	246	HN	ILE	629	18.175	59.971	5.421
	247	N	CYS	638	31.034	64.418	9.081
	248	CA	CYS	638	30.921	63.606	10.354
	249	СВ	CYS	638	30.871	64.542	11.581
	250	SG	CYS	638	32.117	65.871	11.538
40	251	С	CYS	638	29.661	62.632	10.415
	252	0	CYS	638	29.460	62.015	11.451
	253	HN	CYS	638	30.213	64.921	8.792
	254	HG	CYS	638	33.063	65.261	12.246
	255	N	MET	639	28.777	62.501	9.293
45	256	CA	MET	639	27.531	61.705	9.308
	257	СВ	MET	639	26.619	61.890	8.061
	258	CG	MET	639	25.304	62.647	8.306
	259	SD	MET	639	25.528	64.439	8.562
	260	CE	MET	639	23.886	64.822	9.258
50	261	C	MET	639	27.781	60.167	9.463
	262	0	MET	639	27.214	59.637	10.405
	263	HN	MET	639	28.926	63.047	8.457
	264	N	GLN	642	28.314	58.322	12.657
	265	CA	GLN	642	27.386	58.403	13.783

		 					
	266	CB	GLN	642	27.149	59.910	13.979
	267	CG	GLN	642	28.513	60.516	14.419
	268	CD	GLN	642	28.943	59.776	15.690
5	269	OE1	GLN	642	28.125	59.689	16.582
	270	NE2	GLN	642	30.231	59.214	15.889
	271	C	GLN	642	26.125	57.570	13.438
	272	0	GLN	642	25.600	56.815	14.249
	273	HN	GLN	642	28.450	59.189	12.137
10	274	1HE2	GLN	642	30.419	58.883	16.846
	275	2HE2	GLN	642	30.820	59.014	15.082
	276	N	CYS	643	25.630	57.792	12.127
	277	CA	CYS	643	24.401	57.297	11.541
	278	CB	CYS	643	24.216	58.034	10.196
15	279	SG	CYS	643	23.694	59.790	10.338
15	280	С	CYS	643	24.479	55.742	11.373
	281	0	CYS	643	23.439	55.131	11.153
	282	HN	CYS	643	26.203	58.317	11.470
	283	HG	CYS	643	23.042	59.851	9.179
	284	N	MET	646	22.352	53.505	13.602
20	285	CA	MET	646	20.895	53.587	13.333
	286	СВ	MET	646	20.467	55.015	12.990
	287	CG	MET	646	20.910	56.120	13.959
	288	SD	MET	646	20.663	57.723	13.144
	289	CE	MET	646	21.900	58.682	14.059
25	290	С	MET	646	20.579	52.798	12.031
	291	0	MET	646	19.508	52.233	11.852
	292	HN	MET	646	22.870	54.262	13.186
	293	N	VAL	729	22.065	52.181	21.522
	294	CA	VAL	729	21.631	53.332	22.332
30	295	CB	VAL	729	20.716	52.951	23.514
	296	CG1	VAL	729	20.710	53.987	24.657
	297	CG2	VAL	729	19.304	52.701	22.983
	298	С	VAL	729	22.872	54.072	22.877
	299	0	VAL	729	22.863	55.289	22.841
	300	HN	VAL	729	21.984	51.226	21.920
35	301	N	ASN	731	26.329	54.014	21.825
	302	CA	ASN	731	27.138	54.820	20.870
	303	CB	ASN	731	27.387	54.229	19.463
	304	CG	ASN	731	28.845	53.776	19.317
	305	OD1	ASN	731	29.653	54.382	18.627
40	306	ND2	ASN	731	29.150	52.557	19.959
	307	C	ASN	731	26.443	56.202	20.692
	308	0	ASN	731	27.108	57.230	20.731
	309	HN	ASN	731	26.219	53.014	21.649
	310	1HD2	ASN	731	30.063	52.119	20.012
45	311	2HD2	ASN	731	28.472	52.206	20.626
	312	N	LEU	732	25.048	56.174	20.372
	313	CA	LEU	732	24.290	57.406	20.172
	314	CB	LEU	732	22.800	57.211	19.824
	315	CG	LEU	732	22.433	56.300	18.630
50	316	CD1	LEU	732	20.909	56.239	18.525
- -	317	CD2	LEU	732	23.040	56.667	17.267
	318	C	LEU	732	24.382	58.269	21.468
	319	0	LEU	732	24.564	59.463	21.309
	320	HN	LEU	732	24.504	55.309	20.391
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	321	TN	Trett	722	24.161	57.702	22.766
	322	CA	LEU	733	24.202	57.703	22.765
	323	CB	LEU	733	24.049	57.968	25.301
5	324	CG	LEU	733	22.612	57.462	25.553
_	325	CD1	LEU	733	22.698	56.176	26.382
	326	CD2	LEU	733	21.724	58.557	26.193
	327	C	LEU	733	25.552	59.366	23.917
	328	ō	LEU	733	25.570	60.542	24.226
10	329	HN	LEU	733	24.452	56.716	22.873
10	330	N	ASN	734	26.726	58.640	23.601
	331	CA	ASN	734	28.055	59.253	23.617
	332	СВ	ASN	734	29.217	58.329	23.269
	333	CG	ASN	734	29.132	57.030	24.049
	334	OD1	ASN	734	28.749	56.886	25.196
15	335	ND2	ASN	734	29.613	55.946	23.311
	336	C	ASN	734	28.100	60,449	22.627
	337	0	ASN	734	28.481	61.503	23.108
	338	HN	ASN	734	26.659	57.646	23.351
	339	1HD2	ASN	734	29.561	55.063	23.808
20	340	2HD2	ASN	734	29.782	55.936	22.305
	341	N	TYR	735	27.804	60.285	21.227
	342	CA	TYR	735	28.040	61.488	20.385
	343	CB	TYR	735	27.995	61.224	18.877
	344	CG	TYR	735	28.410	62.390	17.981
25	345	CD1	TYR	735	27.587	62.809	16.877
	346	CE1	TYR	735	28.050	63.814	15.945
	347	CD2	TYR	735	29.695	63.022	18.119
	348	CE2	TYR	735	30.157	64.025	17.194
	349	CZ	TYR	735	29.347	64.433	16.073
30	350	OH	TYR	735	29.775	65.405	15.187
	351	C	TYR	735	27.034	62.613	20.790
	352	0	TYR	735	27.369	63.784	20.800
	353	HN	TYR	735	27.340	59.452	20.845
	354	HH	TYR	735	30.552	65.841	15.572
35	355	N	CYS	736	25.709	62.223	21.091
	356	CA	CYS	736	24.669	63.236	21.406
	357	CB	CYS	736	23.284	62.741	21.834
	358	SG	CYS	736	22.170	64.172	22.068
	359	C	CYS	736	25.148	64.111	22.584
40	360	0	CYS	736	25.085	65.331	22.572
	361	HN	CYS	736	25.569	61.233	21.285
	362	HG	CYS	736	21.724	63.818	23.261
	363	N CA	PHE	737	25.582	63.357	23.708
	364 365	CA	PHE	737	26.089	64.021	24.917
45		CB	PHE	737	26.664	63.063	25.983
43	366	CG CD1	PHE	737	25.636	62.240	26.724
	367 368	CD2	PHE PHE	737	24.221	62.550	26.756
	369	CE1	PHE	737	26.128	61.152	27.526
	370	CE2	PHE	737	23.340	61.790	27.593
	371	CZ	PHE	737	23.847	60.690	28.321
50	372	C	PHE	737	27.229		28.361
	373	0	PHE	737	27.067	65.005	24.499
	374	HN	PHE	737	25.846	62.376	23.585
	375	N	THR	739	28.681	66.189	
			TILK	133	1 20.001	1 00.193	21.280
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			T and the	720	28.309	67.384	20.463
	376	CA	THR	739	27.440	67.126	19.217
	377	CB	THR	739	26.320	66.342	19.589
	378	OG1	THR	739	28.179	66.402	18.097
5	379	CG2	THR	739	27.566	68.474	21.305
	380	C	THR	739	27.905	69.636	21.151
	381	0	THR	739	28.581	65.281	20.851
	382	HN	THR	739	26.729	65.628	20.104
	383	HG1	THR	739	26.513	68.090	22.188
10	384	N	PHE	740	25.779	69.026	23.045
	385	CA	PHE	740	24.652	68.371	23.870
	386	CB	PHE	740	24.048	69.312	24.883
	387	CG	PHE	740	23.350	70.515	24.507
	388	CD1	PHE	740	24.123	68.970	26.273
15	389	CD2	PHE	740	22.645	71.311	25.474
15	390	CE1	PHE	740	23,445	69.769	27.246
	391	CE2	PHE	740	22.678	70.918	26.852
	392	CZ	PHE	740	26.785	69.777	23.972
	393	С	PHE	740	26.763	70.958	24.193
	394	0	PHE	740	26.497	67.112	22.462
20	395	HN	PHE	740	25.929	73.116	17.326
	396	N	ILE	747	24.692	72.401	16.976
	397	CA	ILE	747	24.972	70.887	16.734
	398	CB	ILE	747	23.710	70.032	16.954
	399	CG2	ILE	747	25.544	70.693	15.298
25	400	CG1	ILE	747	26.024	69.275	14.951
	401	CD1	ILE	747	23.693	72.719	18.146
	402	C	ILE	747	24.061	72.665	19.315
	403	0	ILE	747	26.567	72.631	17.950
	404	HN	ILE	747	20.020	71.968	20.436
30	405	N	PHE	749	19.113	70.994	21.038
00	406	CA	PHE	749	19.825	70.178	22.170
	407	CB	PHE	749	21.123	69.551	21.674
	408	CG	PHE	749	21.249	68.133	21.434
	409	CD1	PHE	749	22.271	70.378	21.389
05	410	CD2	PHE	749	22.491	67.570	20.946
35	411	CE1	PHE	749	23.466	69.834	20.808
	412	CE2	PHE	749	23.576	68.425	20.575
	413	CZ	PHE	749	17.922	71.872	21.559
	414	C	PHE	749	18.158	72.657	22.462
	415	0	PHE	749	20.737	72.269	21.075
40	416	HN	PHE		16.607	71.806	20.962
	417	N	PRO	750	16.137	70.841	19.982
	418	CD	PRO	750	15.444	72.491	21.552
	419	CA	PRO	750	14.275	72.210	20.593
	420	CB	PRO	750	14.608	70.797	20.114
45	421	CG	PRO	750	15.157	71.868	22.959
	422	С	PRO	750	15.795	70.949	23.448
	423	0	PRO	750	14.849	67.699	24.405
	424	N	LEU	753	16.084	66.906	24.480
	425	CA	LEU	753	16.673	66.578	23.107
50	426	CB	LEU	753	16.010	65.374	22.410
50	427	CG	LEU	753	14.477	65.428	22.363
	428	CD1	LEU	753	16.598	65.289	20.994
	429	CD2	LEU	753 753	17.160	67.649	25.276
	430	C	LEU				

			· · · · · · · · · · · · · · · · · · ·				
	431	_ 0	LEU	753	18.007	66.994	25.852
	432	HN	LEU	753	14.524	68.016	23.508
_	433	N	ILE	757	18.993	65.466	27.892
5	434	CA	ILE	757	20.424	65.244	27.718
	435	CB	ILE	757	20.977	66.101	26.557
	436	CG2	ILE	757	22.499	66.188	26.626
	437	CG1	ILE	757	20.534	65.490	25.217
	438	CD1	ILE	757	20.687	66.440	24.033
10	439	С	ILE	757	21.047	65.623	29.086
	440	0	ILE	757	21.490	64.780	29.839
	441	HN	ILE	757	18.565	66.197	27.326
	442	C1	SCH	1	17.190	58.143	15.541
	443	C2	SCH	1	16.015	59.057	15.282
15	444	N3	SCH	1	14.994	58.476	14.773
	445	O4	SCH	1	13.834	59.242	14.487
	446	C5	SCH	1	13.788	60.544	14.792
	447	O6	SCH	1	12.758	61.154	14.555
	448	C7	SCH	1	14.949	61.278	15.410
20	449	C8	SCH	1	14.902	62.627	15.770
20	450	C9	SCH	_ 1	16.030	63.231	16.334
	451	C10	SCH	1	17.235	62.523	16.444
	452	NII	SCH	1	18.388	63.110	16.871
	453	1HN1	SCH	1	18.712	63.960	16.387
	454	C12	SCH	1	19.107	62.649	17.866
25	455	C13	SCH	1	20.354	63.413	18.299
	456	O14	SCH_	1	20.934	64.111	17.181
	457	C15	SCH	1	21.410	62.438	18.917
	458	C16	SCH	1	22.124	61.455	17.927
	459	C17	SCH	1	21.132	60.304	17.566
30	460	C18	SCH	1	23.317	60.761	18.661
	461	C19	SCH	1	22.706	62.192	16.676
	462	C20	SCH	1	22.302	61.853	15.372
	463	C21	SCH	1	22.877	62.439	14.242
	464	F22	SCH	1	22.460	62.092	13.025
35	465	C23	SCH	1	23.891	63.384	14.387
	466	C24	SCH	1	24,279	63.770	15.670
	467	C25	SCH	1	23.673	63.207	16.803
	468	O26	SCH	1	24.040	63.668	18.070
	469	C27	SCH	1	19.955	64.495	19.340
40	470	F28	SCH	1	19.524	63.898	20.483
40	471	F29	SCH	1	21.020	65.291	19.628
	472	F30	SCH	1	18.949	65.264	18.840
	473	01	SCH	1	18.826	61.631	18.480
	474	C31	SCH	1	17.249	61.161	16.108
	475	C32	SCH	1	16.099	60.529	15.616
45	476	H14	SCH	1	21.051	65.042	17.344
	477	H26	SCH	1	24.314	64.579	18.102

TABLE 7 SUBSET OF ATOMIC COORDINATES OF GR α IN COMPLEX WITH A-222977 OBTAINED FROM MODELING OF THE CRYSTAL STRUCTURE OF GR α IN COMPLEX WITH FP

	_	7.7	GRAIN				
	te astron	- Light Ma	Termine.	The State of the Control of the Cont	i i i i i i i i i i i i i i i i i i i	i dibinin	ignory)
	i samme	4 F. 7 State - Adding	A Paper			62.649	11.764
	1	N	LEU	544	5.940	64.102	11.777
	2	CA	LEU	544	5.974	64.855	13.135
	3	CB	LEU	544	5.952	64,350	14.406
	4	CG	LEU	544	6.701	65.241	15.616
	5	CD1	LEU	544	6.322	62.880	14.786
	6	CD2	LEU	544	6.415	64.437	10.826
	7	C	LEU	544	7.164	63.851	10.879
	8	0	LEU	544	8.239	62.118	12.352
	9	HN	LEU	544	6.575	67.032	9.049
	10	N	ALA	546	10.133	67.973	9.665
	11	CA	ALA	546	11.077	67.894	9.127
	12	CB	ALA	546	12.511	69.441	9.516
	13	C	ALA	546	10.510	70.171	10,499
	14	0	ALA	546	10.418	66.691	8.101
	15	HN	ALA	546	10.336	69.607	7.321
	16	N	THR	556	26.536	68.666	8,452
	17	CA	THR	556	26.715	68.488	8.917
	18	CB	THR	556	28.220	68.162	7.870
	19	OG1	THR	556	29.146	67.408	10.003
		CG2	THR	556	28.374	69.166	9.633
	20	C	THR	556	25.830	68.451	10.058
	21	10	THR	556	24.941	69.610	6.760
	22	HN	THR	556	27.377	68.403	8.201
	23	HG1	THR	556	30.034	70.029	8.828
	25	- N	ILE	559	21.645	68.760	8.713
;		CA	ILE	559	20.905	67.582	7.907
	26	СВ	ILE	559	21.548	66.252	8.203
	27	CG2	ILE	559	20.807	67.839	6.379
	28	CG1	ILE	559	21.607		5.512
	29	CD1	ILE	559	22.044	66.636	10.169
9	30	$-\frac{cD}{c}$	ILE	559	20.752	68.306	10.607
,	31	- 0 -	ILE	559	19.621	68.351	8.403
	32	HN	ILE	559	22.571	69.965	10.889
	33	N N	MET	560	21.905	67.857	12.260
	34	CA	MET	560	21.941	67,439	12.875
	35	СВ	MET	560	23.351		12.320
5	36	CG	MET	560	24.324	66.388	12.895
	37	SD	MET	560	26.019	66.718	12.229
	38	CE	MET	560	26.828	65.234	13.150
	39	$\frac{CE}{C}$	MET	560	21.018	68.237	14.121
	40	- 0	MET	560	20.533	67.696	10.473
50	41	HN	MET	560	22.823	67.966	
	42	N N	THR	561	20.851	69.631	12.866
	43		THR	561	20.194	70.586	13.815
	44	CA CB	THR	561	20.656	72.069	13.721

	46	OG1	THR	561	21.982	72.165	14.217
	47	CG2	THR	561	19.786	73.052	14.525
	48	С	THR	561	18.619	70.520	13.680
5	49	0	THR	561	17.937	70.552	14.690
	50	HN	THR	561	21.449	70.022	12.137
	51	HG1	THR	561	22.203	73.109	14.307
	52	N	THR	562	18.041	70.553	12.371
	53	CA	THR	562	16.553	70.280	12.158
10	54	CB	THR	562	15.755	70.434	10.825
	55	OG1	THR	562	16.062	69.374	9.913
	56	CG2	THR	562	15.809	71.834	10.188
	57	С	THR	562	16.262	68.792	12.499
	58	0	THR	562	15.144	68.430	12.862
15	59	HN	THR	562	18.664	70.520	11.569
	60	HG1	THR	562	15.225	69.107	9.479
	61	N	LEU	563	17.370	67.906	12.333
	62	CA	LEU	563	17.285	66.577	12.933
	63	CB	LEU	563	18.420	65.579	12.652
20	64	CG	LEU	563	18.147	64.632	11.465
20	65	CD1	LEU	563	17.912	65.376	10.149
	66	CD2	LEU	563	19.291	63.626	11.351
	67	C	LEU	563	17.087	66.791	14.472
	68	0	LEU	563	16.099	66.310	14.993
	69	HN	LEU	563	18.282	68.220	12.006
25	70	N	ASN	564	17.998	67.561	15.243
	71	CA	ASN	564	17.762	67.781	16.699
	72	CB	ASN	564	18.569	68.843	17.472
	73	CG	ASN	564	20.056	68.607	17.508
	74	OD1	ASN	564	20.629	67.652	17.018
30	75	ND2	ASN	564	20.778	69.585	18.188
	76		ASN	564	16.319	68.294	16.953
	77	0	ASN	564	15.795	68.053	18.031
	78	HN	ASN	564	18,920	67.829	14.913
	79	1HD2	ASN	564	21.765	69.634	17.976
35	80	2HD2	ASN	564	20.395	70.383	18.697
	81	N CA	MET MET	565	15.684	69.107	15.971
	83	CA CB		565	14.312	69.583	16.188
	84	CG	MET MET	565 565	13.648 13.656	70.584	15.211
	85	SD	MET	565	15.315	72.043	15.707
40	86	CE	MET	565	14.869	74.511	15.771
	87	C	MET	565	13.443	68.305	16.170
	88	16	MET	565	12.678	68.164	16.265
	89	HN	MET	565	16.160	69.310	15.099
	90	N	LEU	566	13.547	67.404	15.171
45	91	CA	LEU	566	12.768	66.143	
	92	CB	LEU	566	12.945	65.257	15.153
	93	CG	LEU	566	11.822	64.204	13.676
	94	CD1	LEU	566	10.450	64.837	13.381
	95	CD2	LEU	566	12.147	63.224	12.538
50	96	C	LEU	566	13.005	65.328	16.485
50	97	l ö	LEU	566	12.081	64.676	16.948
	98	HN	LEU	566	14.426	67.455	14.649
	99	N	GLY	567	14.263	65.502	17.171
	100	CA	GLY	567	14.521	65.160	18.589
55			1		1	1 03.100	10.505

				1567	13.465	65.833	19.538
	101	C	GLY	567	12.547	65.132	19.919
	102	0	GLY	567	15.052	66.005	16.742
	103	HN	GLY	567	13.544	67.218	19.887
		N	GLY	568	12.411	67.926	20.537
	104	CA	GLY	568	10.982	67.303	20.254
	105	c	GLY	568		66.848	21.205
	106	0	GLY	568	10.368	67.732	19.807
	107	HN	GLY	568	14.433	64.685	18.396
	108	N	GLN	570	9.428	63.281	18.604
	109		GLN	570	9.049	62.258	17.949
	110	CA	GLN	570	9.956	61.961	16.450
	111	CB	GLN	570	9.753	60.556	16.193
	112	CG	GLN	570	10.308	59.796	15.383
	113	CD	GLN	570	9.806		17.001
_	114	OE1	GLN	570	11.431	60.213	20.110
5	115	NE2	GLN	570	9.137	62.898	20.551
	116	C		570	8.332	62.097	
	117	0	GLN	570	10.392	64.875	18.141
	118	HN	GLN	570	11.718	59.230	17.040
	119	1HE2	GLN	570	11.633	60.875	17.778
20	120	2HE2	GLN		10.216	63.398	20.902
	121	N	VAL	571	10.426	62.911	22.293
	122	CA	VAL		11.858	63.181	22.856
	123	CB	VAL	571	12.086	62.848	24.356
	124	CG1	VAL	571	12.908	62.362	22.069
	125	CG2	VAL	571	9.247	63.480	23.196
25		C	VAL	571	9.117	63.034	24.321
	126	0	VAL	571	10.991	63.862	20.446
	127	HN	VAL	571	14.561	57.460	26.114
	128	N	TRP	600	14.324	58.379	25.003
	129	CA	TRP	600	14.614	59.891	25.199
30	130	CB	TRP	600		60.382	25.501
	131	CG	TRP	600	16.028	61.120	24.578
	132	CD2	TRP	600	16.930	61.447	25.325
	133	CE2	TRP	600	18.065	61.490	23.221
	134	CE2	TRP	600	16.817	60.323	26.661
05	135		TRP	600	16.747	60.884	26.595
35	136	CD1	TRP	600	18.055		24.814
	137	NE1	TRP	600	19.117	62.236	22.669
	138	CZ2	TRP	600	17.893	62.235	23.455
	139	CZ3	TRP	600	19.012	62.627	23.809
	140	CH2	TRP	600	15.100	57.770	22.825
40	141	C	TRP	600	14.466	57.424	27.028
	142	0	TRP	600	14.787	57.825	26.729
	143	HN		600	18.880	60.300	23.896
	144	HE1	TRP	601	16.514	57.610	
	145	N	MET	601	17.323	57.405	22.681
45	146	CA	MET	601	18.834	57.412	22.988
43	147	CB	MET	601	19.686	57.683	21.742
	148	CG	MET	601	19.546	59.415	21.169
	149	SD	MET		20.901	60.143	22.156
	150	CE	MET	601	16.967	56.077	21.930
	151	C	MET	601	17.102	56.001	20.724
50		- lö	MET	601	16.971	58.124	24.636
	152	HN	MET	601	13.772	54.432	22.178
	153	N N	LEU	603		54.451	21.540
	154	CA	LEU	603	12.454	1 34.434	

						1.00.00	
	156	CB	LEU	603	11.434	55.244	22.366
	157	CG	LEU	603	11.150	54.507	23.695
_	158	CD1	LEU	603	10.728	55.452	24.824
5	159	CD2	LEU	603	10.128	53.394	23.427
	160	C	LEU	603	12.673	55.106	20.169
	161	0	LEU	603	12.125	54.614	19.199
	162	HN	LEU	603	13.876	54.975	23.034
	163	N	MET	604	13.566	56.217	20.107
10	164	CA	MET	604	13.981	56.821	18.842
	165_	CB	MET	604	14.970	58.010	18.972
	166	CG	MET	604	14.581	59.213	19.859
	167	SD	MET	604	13.063	60.070	19.348
	168	CE	MET	604	11.823	59.245	20.415
15	169	C	MET	604	14.636	55.715	17.935
	170	0	MET	604	14.173	55.510	16.829
	171	HN	MET	604	13.925	56.631	20.966
	172	N	ALA	605	15.861	55.133	18.370
	173	CA	ALA	605	16.781	54.474	17.414
00	174	CB	ALA	605	18.140	54.054	18.003
20	175	С	ALA	605	16.114	53.230	16.751
	176	0	ALA	605	16.374	52.946	15.589
	177	HN	ALA	605	16.240	55.310	19.293
	178	N	PHE	606	15.195	52.543	17.598
	179	CA	PHE	606	14.513	51.298	17.216
25	180	СВ	PHE	606	13.747	50.755	18.425
	181	CG	PHE	606	13.304	49.339	18.170
	182	CD1	PHE	606	14.259	48.269	18.295
	183	CD2	PHE	606	11.931	49.029	17.874
	184	CE1	PHE	606	13.870	46.921	18.067
30	185	CE2	PHE	606	11.543	47.672	17.614
	186	CZ	PHE	606	12.529	46.627	17.662
	187	С	PHE	606	13.506	51.591	16.073
	188	0	PHE	606	13.333	50.781	15.180
	189	HIN	PHE	606	15.064	52.882	18.553
35	190	N	ALA	607	12.820	52.837	16.170
	191	CA	ALA	607	11.742	53.395	15.301
	192	CB	ALA	607	10.836	54.405	16.040
	193	C	ALA	607	12.289	54.110	13.992
	194	0	ALA	607	11.664	54.064	12.939
40	195	HN	ALA	607	13.125	53.441	16.939
	196	N	LEU	608	13.478	54.884	14.096
	197	CA	LEU	608	14.239	55.248	12.891
	198	СВ	LEU	608	15.611	55.891	13.143
	199	CG	LEU	608	16.409	56.104	11.838
45	200	CD1	LEU	608	15.637	57.041	10.912
45	201	CD2	LEU	608	17.811	56.651	12.114
	202	C	LEU	608	14.475	53.960	12.058
	203	0	LEU	608	14.118	53.927	10.891
	204	HN	LEU	608	14.044	54.730	14.929
	205	N	GLY	609	15.072	52.871	12.762
50	206	CA	GLY	609	15.130	51.566	12.135
	207	C	GLY	609	13.878	51.185	11.368
	208	0	GLY	609	13.970	50.700	10.245
	209	HN	GLY	609	15.265	52.896	13.770
	210	N	ARG	611	10.857	53.193	10.139
EE							

				1(1)	10.355	53.632	8.752
	211	CA	ARG	611	9.843	54.982	8.210
	212	CB	ARG	611	8.689	55.607	8.985
	213	CG	ARG	611	9.225	56.890	9.590
5	214	CD	ARG	611	10.412	56.723	10.461
	215	NE	ARG	611	10.551	57.579	11.562
	216	CZ	ARG	611	9.672	58.613	11.781
	217	NH1	ARG	611	11.542	57.447	12.517
	218	NH2	ARG	611	11.489	53.310	7.755
10	219	C	ARG	611	11,489	53.115	6.580
	220	0	ARG	611	11.052	53.878	10.873
	221	HN	ARG	611	11.054	55.975	10.220
	222	HE	ARG	611	9.774	59.243	12.566
	223	1HH1	ARG	611	8.902	58.754	11.149
15	224	2HH1	ARG	611	11.573	58.106	13.291
	225	1HH2	ARG	611	12.233	56.718	12.509
	226	2HH2	ARG	611	18.340	56.346	5.666
	227	N	LEU	621	17.897	56.453	7.068
	228	CA	LEU	621	18.926	57.115	8.017
20	229	CB	LEU	621	20.170	56.278	8.350
20	230	CG	LEU	621	21.020	57.019	9.409
	231	CD1	LEU	621	19.779	54.857	8.782
	232	CD2	LEU	621	16.632	57.319	6.960
	233	C	LEU	621	16.849	58.518	6.998
	234	0	LEU	621	19.245	56.741	5.477
25	235	HN	LEU	621	15.306	56.815	6.729
	236	N	CYS	622	14.234	57.828	6.639
	237	CA	CYS	622	12.926	57.233	6.114
	238	CB	CYS	622	13.160	56.480	4.471
	239	SG	CYS	622	14.056	58.457	8.070
30	240	C	CYS		13.430	57.849	8.930
	241	0	CYS	622	15.072	55.855	7.001
	242	HN	CYS	622	13.936	55.462	4.807
	243	HG	CYS		14.601	59.763	8.308
	244	N	PHE	623	14.425	60.309	9.705
35	245	CA	PHE	623	15.244	61.569	10.081
	246	CB	PHE	623	16.556	61.042	10.590
	247	CG	PHE	623	17.579	60.635	9.669
	248	CD1	PHE	623	16.726	60.787	11.999
	249	CD2	PHE	623	18.761	59.986	10.164
40	250	CE1	PHE	623	17.921	60.170	12.497
40	251	CE2	PHE	623	18.933	59.751	11.571
	252	CZ	PHE	623	12.921	60.569	10.011
	253	C	PHE	623	12.429	60.437	11.124
	254	0	PHE	623	15.017	60.332	7.556
	255	HN	PHE	624	12.283	61.028	8.839
45	256	N	ALA	624	11.034	61.723	8.528
	257	CA	ALA	624	11.045	63.224	8.877
	258	CB	ALA	624	10.967	61.630	6.967
	259	C	ALA	624	11.954	61.868	6.293
	260	0	ALA	624	12.896	60.941	8.021
50	261	HN	ALA	627	12.747	64.097	4.793
	262	N	LEU	627	14.163	64.327	5.140
	263	CA	LEU	627	14.482	65.265	6.339
	264	CB	LEU	627	15.970	65.710	6.422
	265	CG	LEU	1021	1.20.770		

	266	CD1	LEU	627	16.199	66.758	7.534
	267	CD2	LEU	627	16.940	64.529	6.608
_	268	С	LEU	627	14.760	62.885	5.331
5	269	0	LEU	627	14.829	62.358	6.436
	270	HN	LEU	627	12.277	63.333	5.282
	271	N	ILE	629	18.460	60.556	4.655
	272	CA	ILE	629	19.905	60.734	4.555
	273	CB	ILE	629	20.662	60.638	5.912
10	274	CG2	ILE	629	22.181	60.686	5.662
	275	CG1	ILE	629	20.189	61.794	6.853
	276	CD1	ILE	629	21.052	62.074	8.102
	277	С	ILE	629	20.244	59.674	3.469
	278	0	ILE	629	20.464	58.500	3.734
15	279	HN	ILE	629	18.154	59.992	5.437
	280	N	MET	634	24.928	61.075	3.277
	281	CA	MET	634	25.781	60.213	4.131
	282	CB	MET	634	25.575	58.727_	3.734
	283	CG	MET	634	26.417	57.674	4.474
20	284	SD	MET	634	26.018	57.458	6.251
	285	CE	MET	634	25.117	55.867	6.189
	286	C	MET	634	27.288	60.594	3.951
	287	0	MET	634	28.087	60.349	4.850
	288	HN	MET	634	24.727	60.641	2.372
25	289	N	CYS	638	31.098	64.594	9.077
25	290	CA	CYS	638	31.055	64.015	10.454
	291	СВ	CYS	638	31.239	65.080	11.558
	292	SG	CYS	638	32.568	66.285	11.216
	293	. C	CYS	638	29.709	63.226	10.664
	294	0	CYS	638	29.190	63.165	11.770
30	295	HN	CYS	638	30.527	65.420	8.911
	296	HG	CYS	638	33.011	66.409	12.463
	297	N	MET	639	29.177	62.603	9.493
	298	CA	MET	639	28.118	61.606	9.391
	299	СВ	MET	639	27.276	61.590	8.083
35	300	CG	MET	639	25.994	62.438	8.084
	301	SD	MET	639	26.258	64.229	8.311
	302	CE	MET	639	24.506	64.724	8.423
	303	C	MET	639	28.818	60.222	9.463
	304	0	MET	639	28.321	59.438	10.253
40	305	HN	MET	639	29.536	62.905	8.595
	306	N	TYR	640	29.848	59.854	8.495
	307	CA	TYR	640	29.739	58.468	7.927
	308	CB	TYR	640	30.816	57.958	6.919
	309	CG	TYR	640	30.450	56.539	6.491
45	310	CD1	TYR	640	29.652	56.268	5.315
	311	CE1	TYR	640	29.053	54.968	5.129
	312	CD2	TYR	640	30.769	55.432	7.359
	313	CE2	TYR	640	30.153	54.145	7.178
	314	CZ	TYR	640	29.243	53.913	6.093
50	315	OH	TYR	640	28.569	52.720	5.978
50	316	C	TYR	640	29.564	57.430	9.097
	317	0	TYR	640	28.562	56.733	9.138
	318	HN	TYR	640	30.292	60.563	7.909
	319	HH	TYR	640	28,269	52.670	5.058
	320	<u> </u>	ASP	641	30.620	57.298	10.037
55			•				

			ACD	641	30.649	56.562	11.304
	321	CA	ASP	641	31.628	57.260	12.263
	322	CB	ASP	641	33.078	56.758	12.235
	323	CG	ASP	641	33.794	57.386	13.008
i	324	OD1	ASP		33.377	55.816	11.498
	325	OD2	ASP	641	29.326	56.543	12.107
	326	C	ASP	641	28.909	55.513	12.616
	327	0	ASP	641		57.909	9.941
	328	HN	ASP	641	31.416	57.830	12.393
0	329	N	GLN	642	28.792	58.002	13.496
	330	CA	GLN	642	27.838		13.734
	331	CB	GLN	642	27.603	59.502	14.274
	332	CG	GLN	642	28.908	60.138	15.630
	333	CD	GLN	642	29.236	59.505	
5	334	OE1	GLN	642	28.374	59.494	16.485
5	335	NE2	GLN	642	30.522	58.980	15.921
	336	С	GLN	642	26.552	57.241	13.119
	337	Ō	GLN	642	25.935	56.582	13.949
	338	HN	GLN	642	29.140	58.691	11.949
	339	1HE2	GLN	642	30.718	58.815	16.912
20	340	2HE2	GLN	642	31.248	59.012	15.207
		N	CYS	643	26.169	57.411	11.744
	341	CA	CYS	643	25.074	56.740	11.046
	342		CYS	643	24.892	57.322	9.616
	343	CB	CYS	643	24.484	59.105	9.519
25	344	SG	CYS	643	25.277	55.166	10.943
2.5	345	C	CYS	643	24.394	54.575	10.340
	346	0	CYS	643	26.908	57.738	11.111
	347	HN	CYS	643	24.214	59.154	8.216
	348	HG		644	26.392	54.438	11.500
	349	N N	LYS	644	26.484	52.967	11.428
30	350	CA	LYS	644	27.925	52.366	11.385
	351	CB	LYS	644	28.724	52.240	12.710
	352	CG	LYS	644	30.263	52.025	12.578
	353	CD	LYS	644	31.028	53.247	12.010
	354	CE	LYS		32.537	53.112	11.853
35	355	NZ	LYS	644	25.566	52.392	12.568
	356	C	LYS	644	24.972	51.347	12.357
	357	0	LYS	644		54.909	12.007
	358	HN	LYS	644	27.136 32.915	53.999	11.523
	359	HZ1	LYS	644		52.905	12.724
40	360	HZ2	LYS	644	33.013	52.408	11.176
40	361	HZ3	LYS	644	32.798	53.102	13.810
	362	N	HIS	645	25.428		14.900
	363	CA	HIS	645	24.598	52.550	16.219
	364	CB	HIS	645	24.916	53.293	16.418
	365	CG	HIS	645	26.374	52.978	
45	366	CD2	HIS	645	26.819	51.696	16.836
	367	ND1	HIS	645	27.439	53.703	15.978
	368	CE1	HIS	645	28.488	52.840	16.035
	369	NE2	HIS	645	28.175	51.559	16.562
	370	C	HIS	645	23.061	52.510	14.519
50	371	- l ö	HIS	645	22.320	51.794	15.168
<i>50</i>	372	HN	HIS	645	25.935	53.960	14.039
	373	HE2	HIS	645	28.735	50.741	16.753
		N N	MET	646	22.577	53.278	13.414
	374 375	CA	MET	646	21.229	53.597	12.908
	1.375	I CA	1 14117 1				

	376	СВ	MET	646	21.067	55.106	12.659
	377	CG	MET	646	20.921	55.934	13.936
_	378	SD	MET	646	19.699	55.213	15.093
5	379	CE	MET	646	18.744	56.709	15.497
	380	C	MET	646	20.954	52.953	11.515
	381	0	MET	646	19.819	52.553	11.295
	382	HN	MET	646	23.266	53.804	12.902
	383	N	LEU	647	22.000	52.868	10.535
10	384	CA	LEU	647	21.770	51.903	9.439
	385	CB	LEU	647	22.923	51.593	8.448
	386	CG	LEU	647	23.029	52.476	7.171
	387	CD1	LEU	647	24.271	52.062	6.344
	388	CD2	LEU	647	21.765	52.405	6.279
15	389	С	LEU	647	21.445	50.582	10.169
	390	0	LEU	647	20.690	49.782	9.652
	391	HN	LEU	647	22.934	53.259	10.626
	392	CD1	TYR	716	17.532	32.722	22.110
	393	N	VAL	728	23.354	49.846	20.762
20	394	CA	VAL	- 728	23.256	50.881	19.702
20	395	CB	VAL	728	22.271	50.756	18.493
	396	CG1	VAL	728	21.851	49.313	18.125
	397	CG2	VAL	728	21.008	51.638	18.612
	398	C	VAL	728	23.001	52.237	20.432
0.5	399	0	VAL_	728_	23.533	53.260	20.022
25	400	HN	VAL_	728	22.601	49.222	21.012
	401	N	VAL	729	22.065	52.181	21.522
	402	CA	VAL	729_	21.631	53.332	22.332
	403	CB	VAL	729	20.716	52.951	23.514
	404	CG1	VAL	729	20.710	53.987	24.657
30	405	CG2	VAL	729	19.304	52.701	22.983
	406	C	VAL	729	22.872	54.072	22.877
	407	0	VAL	729	22.863	55.289	22.841
	408	HN	VAL	729	21.984	51.226	21.920
	409	N N	ASN	731	26.233	53.877	21.871
<i>35</i>	410	CA	ASN	731	27.126	54.475	20.877
	411	CB	ASN	731	27.404	53.649	19.613
	412	CG	ASN	731	28.901	53.366	19.468
	413	ODI	ASN	731	29.507	53.633	18.446
	414	ND2	ASN	731	29.519	52.667	20.519
40	415		ASN	731	26.551	55.844	20.464
	416	HN	ASN	731	27.349	56.736	20.226
	417	1HD2	ASN ASN	731	26.048	52.864	21.816
				731	30.318	52.062	20.364
	419	N 2HD2	LEU ASN	731	28.955	52.425	21.331
45	421	ÇA	LEU	732	24.539	56.051	20.345
	422	CB	LEU	732	23.036	57.365	20.106
	423	CG	LEU	732	22.579	56.463	19.768
	424	CD1	LEU	732	21.077	56.679	18.601
	425	CD2	LEU	732	23.394	56.658	17.311
50	426	C	LEU	732	24.681	58.243	21.385
	427	0	LEU	732	25.033	59.396	21.210
	428	HN	LEU	732	24.475	55.281	20.309
	429	N	LEU	733	24.261	57.745	22.668
	430	CA	LEU	733	24.302	58.675	23.822
55	L				1 =	1 20.073	20.022
33							

					Tat 200	58.051	25.213
		TCP	LEU	733	24.099	57,569	25.463
	431	CB	LEU	733	22.649	56.282	26.294
	432	CD1	LEU	733	22.699	58.663	26.114
	433		LEU	733	21.767	59.408	23.841
5	434	CD2	LEU	733	25.667	60.583	24.149
	435	C	LEU	733	25.694	56,738	22.837
	436	0	LEU	733	24.463		23.526
	437	HN	ASN	734	26.833	58.668	23.493
	438	N	ASN	734	28.174	59.245	23.120
10	439	CA		734	29.260	58.246	23.977
	440	CB	ASN	734	29.158	56.986	25.119
	441	CG	ASN	734	28.751	56.880	
	442	OD1	ASN	734	29.648	55.880	23.295
	443	ND2	ASN	734	28.234	60.472	22.527
	444	C	ASN		28.553	61.514	23.068
15	445	0	ASN	734	26.738	57.686	23.252
	446	HN	ASN	734	29.554	55.005	23.798
		1HD2	ASN	734	29.844	55.853	22.299
	447	2HD2	ASN	734	28.000	60.392	21.104
	448	N	TYR	735		61.581	20.238
00	449	CA	TYR	735	28.221	61.209	18.744
20	450	CB	TYR	735	28.239	62.317	17.822
	451		TYR	735	28.732	62.829	16.719
	452	CG	TYR	735	27.956	63.787	15.799
	453	CD1	TYR	735	28.534		17.969
	454	CE1	TYR	735	30.072	62.805	17.082
25	455	CD2		735	30.634	63.779	15.953
	456	CE2	TYR	735	29.889	64.260	15.045
	457	CZ	TYR	735	30.467	65.122	20.506
	458	OH	TYR	735	27.159	62.705	
	459	C	TYR	735	27.440	63.877	20.302
	460	0	TYR	735	27.788	59.498	20.650
30	461	HN	TYR		31.333	65.397	15.397
	462	HH	TYR	735	25.856	62.320	20.919
	463	N	CYS	736	24.872	63.368	21.255
	464	CA	CYS	736	23.401	62.968	21.477
	465	CB	CYS	736	22.331	64.411	21.872
35		SG	CYS	736	25,370	64.119	22.524
	466	$-\frac{ S }{C}$	CYS	736	25.411	65.337	22.520
	467	0	CYS	736		61.369	21.255
	468	HN	CYS	736	25.703	64.730	23.040
	469	HG	CYS	736	22.888	63.340	23.679
	470	N HG	PHE	737	25.665	63.994	24.917
40	471		PHE	737	26.128	63,040	25.989
	472	CA	PHE	737	26.698	62.221	26.731
	473	CB	PHE	737	25.668		26.760
	474	CG	PHE	737	24.255	62.536	27.540
	475	CD1	PHE	737	26.155	61.135	27.586
45	476	CD2		737	23.365	61.776	28.320
	477	CE1	PHE	737	25.260	60.346	
	478	CE2	PHE	737	23.864	60.669	28.348
	479	CZ	PHE		27.258	65.000	24.547
	480	C	PHE	737	27.115	66.171	24.847
	481	0	PHE	737	25.857	62.344	23.573
50		HN	PHE	737	28.592	66.234	21.279
	482	N N	THR	739	28.392	67.521	20.510
	1 // 0/2	1 14		1 720	1 28.5/5		
	484	CA	THR	739 739	27.663	67.618	19.123

	486	OG1	THR	739	26.244	67.699	19.219
	487	CG2	THR	739	28.080	66.555	18.092
	488	C_	THR	739	27.622	68.587	21.389
5	489	0_	THR	739	27.985	69.751	21.344
	490	HN	THR	739	28.445	65.361	20.782
	491	HG1	THR	739	25.917	66.790	19.295
	492	N	PHE	740	26.510	68.154	22.175
	493	CA	PHE	740	25.749	69.052	23.051
10	494	CB	PHE	740	24.650	68.360	23.884
	495	CG	PHE	740	24.007	69.302	24.879
	496	CD1	PHE	740	23.277	70.477	24.473
	497	CD2	PHE	740	24.083	69.004	26.281
	498	CE1	PHE	740	22.548	71.279	25.421
15	499	CE2	PHE	740	23.397	69.818	27.237
13	500	CZ	PHE	740	22.594	70.931	26.810
	501	С	PHE	740	26.769	69.784	23.994
	502	0	PHE	740	26.562	70.964	24.247
	503	HN	PHE	740	26.262	67.166	22.125
	504	N	ILE	747	25.923	73.096	17.350
20	505	CA	ILE	747	24.670	72.412	16.983
	506	CB	ILE	747	24.877	70.891	16.705
	507	CG2	ILE	747	23.621	70.043	16.988
	508	CG1	ILE	747	25.331	70.694	15.231
	509	CD1	ILE	747	25.758	69.266	14.865
25	510	C	ILE	747	23.678	72.718	18.153
	511	0	ILE	747	24.023	72.615	19.325
	512	HN	ILE	747	26.560	72.584	17.960
	513	N	PHE	749	20.021	72.104	20.457
	514	CA	PHE	749	19.101	71.157	21.062
30	515	CB	PHE	749	19.807	70.398	22.215
	516	CG	PHE	749	20.760	69.403	21.580
	517	CD1	PHE	749	20.217	68.150	21.142
	518	CD2	PHE	749	22.150	69.683	21.298
	519	CE1	PHE	749 749	21.043	67.158	20.511
35	520 521	CE2 CZ	PHE PHE	749	22.991 22.449	68.682 67.399	20.687
	522	C	PHE	749			
	523	0	PHE	749	17.913 18.113	72.042 72.930	21.523
	524	HN	PHE	749	20.752	72.442	21.072
	525	N	PRO	750	16.607	71.806	20.962
40	526	CD	PRO	750	16.137	70.841	19.982
	527	CA	PRO	750	15,444	72.491	21.552
	528	CB	PRO	750	14.275	72.210	20.593
	529	CG	PRO	750	14.608	70.797	20.114
	530	C	PRO	750	15.157	71.868	22.959
45	531	ō	PRO	750	15.795	70.949	23.448
73	532	N	LEU	753	14.852	67.716	24.377
	533	CA	LEU	753	16.127	66.985	24.320
	534	CB	LEU	753	16.739	66.915	22.902
ł	535	CG	LEU	753	16.942	65.478	22.381
	536	CD1	LEU	753	15.611	64.700	22.396
50	537	CD2	LEU	753	17.562	65.504	20.966
ł	538	C	LEU	753	17.154	67.647	25.242
ļ	539	ō	LEU	753	17.936	66.959	25.870
ł	540	HN	LEU	753	14.507	68.086	23.510
ι							

						65.448	27.869
			TT D	757	18.978	65.238	27.688
٣	541	N	ILE	757	20.414	66.077	26.505
- F	542	CA	ILE	757	20.964	66.162	26.576
-	543	CB	ILE	757	22.488	65.482	25.146
	544	CG2	ILE	757	20.521		23.973
}	545	CG1	ILE	757	20.619	66.465	29.064
ŀ	546	CD1	ILE	757	21.045	65.622	29.808
}	547	c	ILE	757	21.490	64.771	27.348
1		0	ILE	757	18.553	66.213	32.328
	548	HN	ILE	764	26.376	55.800	13.900
	549	0	TYR		16.117	63.392	15.322
	550	C1	A22	1	16.211	63.357	15.719
	551	O2	A22	1	16.477	62.074	
	552	C3	A22	1	17.785	61.634	16.122
	553		A22	1	18.965	62.451	16.278
5	554	C4	A22	1	18.958	63.859	16.090
	555	C5	A22	1	20.161	64.582	16.050
	556	C6	A22	1		63.974	16.417
	557	C7	A22	1	21.372	64.796	16.383
	558	C8	A22	1	22.523	64.333	16.639
20	559	N9	A22	1	23.878	65.152	17.787
	560	C10	A22	1	24.507	64.514	15.379
	561	C11	A22	1	24.750	62.882	17.067
	562	C12	$-\frac{A22}{A22}$	1	23.850	62.061	17.215
	563	C13		1	22.777	60.715	17.854
25	564	C14	A22	-11	23.067	62.597	16.761
	565	C15	A22	$-\frac{1}{1}$	21.427		16.565
	566	C16	A22	 i	20.222	61.826	16.495
	567	C17	A22	-+	20.280	60.320	15.189
	568	C18	A22	$-\frac{1}{1}$	20.998	59.992	15.109
30	569	C19	A22	$-\frac{1}{1}$	21.867	58.886	14.027
30		C20	A22	$-+\frac{1}{1}$	22.765	58.715	12,933
	570	C21	A22	$-\frac{1}{1}$	22.741	59.608	12.950
	571	C22	A22		21.800	60.663	11.938
	572	C23	A22	1	21.777	61.595	12.393
	573	O24	A22	1	22.404	62.797	13.015
35	574	C25	A22	1	24,075	62.411	
	575	S26	A22	1-	24.904	62.110	11.436
	576	C27	A22	1	20.908	60.815	14.035
	577	C28	A22	1	19.063	59.614	16.702
	578	O29	A22	1	17.888	60.225	16.341
40	579	C30	A22	1	16.782	59.348	16.192
	580		A22	1	15.519	59.827	15.797
	581	C31	A22	1		61.209	15.618
	582	C32	A22	1	15.360	65.630	15.808
	583	C33	$\frac{A22}{A22}$	1	22.462		
45	584	H37	ALL				

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TABLE 8

		TABL	-5 OF AR IN	COMPLE	WITH DH	T	
THREE-D	IMENSIONAL COO	RDINAT	ES OF AR III	7	occ	В	ATOM
		X		25,282	22.008	1.00	24.75
1 N	ILE A	672	13.004	25.215	22.242	1.00	25.11
2 CA	ILE A	672	14.475		L		

TABLE 8 (continued)

		THREE-D	IMENSIONAL	L COO	RDINA	TES OF AR I	N COMPLE	X WITH D	4T	
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	3	C	ILE	Α	672	15.115	23.900	21.789	1.00	25.32
•	4	0	ILE	Α	672	16.189	23.926	21.195	1.00	24.67
	5	СВ	ILE	Α	672	14.846	25.527	23.734	1.00	25.78
10	6	CG1	ILE	Α	672	14.842	27.035	23.978	1.00	25.60
	7	CG2	ILE	Α	672	16.247	25.008	24.099	1.00	25.56
	8	CD1	ILE	Α	672	15.312	27.404	25.360	1.00	25.81
	9	N	PHE	Α	673	14.448	22.768	22.030	1.00	25.89
15	10	CA	PHE	Α	673	14.980	21.446	21.635	1.00	25.86
	11	С	PHE	Α	673	15.213	21.374	20.147	1.00	25.25
	12	0	PHE	Α	673	16.260	20.926	19.680	1.00	24.38
20	13	СВ	PHE	Α	673	14.020	20.306	22.029	1.00	26.22
	14	CG	PHE	Α	673	14.557	18.923	21.722	1.00	25.12
	15	CD1	PHE	Α	673	15.765	18.501	22.251	1.00	25.16
25	16	CD2	PHE	Α	673	13.877	18.066	20.874	1.00	25.81
25	17	CE1	PHE	Α	673	16.286	17.255	21.946	1.00	23.42
	18	CE2	PHE	Α	673	14.403	16.809	20.567	1.00	25.08
	19	CZ	PHE	Α	673	15.609	16.417	21.107	1.00	23.85
30	20	N	LEU	Α	674	14.193	21.792	19.412	1.00	25.01
	21	CA	LEU	Α	674	14.237	21.802	17.969	1.00	25.58
	22	С	LEU	Α	674	15.199	22.801	17.357	1.00	25.10
35	23	0	LEU	Α	674	15.743	22.518	16.294	1.00	26.08
	24	СВ	LEU	Α	674	12.833	21.974	17.391	1.00	26.05
	25	CG	LEU	Α	674	12.067	20.653	17.317	1.00	26.55
	26	CD1	LEU	Α	674	10.617	20.887	16.935	1.00	26.35
40	27	CD2	LEU	Α	674	12.762	19.758	16.304	1.00	26.09
	28	N	ASN	Α	675	15.440	23.939	18.019	1.00	24.63
	29	CA	ASN	Α	675	16.356	24.964	17.484	1.00	23.19
45	30	С	ASN	Α	675	17.726	24.338	17.397	1.00	21.66
	31	0	ASN	Α	675	18.435	24.524	16.417	1.00	21.43
	32	СВ	ASN	Α	675	16.478	26.215	18.393	1.00	24.20
	33	CG	ASN	Α	675	15.206	27.067	18.452	1.00	24.32
50	34	OD1	ASN	Α	675	14.368	27.062	17.547	1.00	24.82
	35	ND2	ASN	Α	675	15.076	27.817	19.539	1.00	24.74
	36	N	VAL	Α	676	18.095	23.612	18.448	1.00	21.17
55	37	CA	VAL	Α	676	19.394	22.952	18.507	1.00	20.92
	38	С	VAL	Α	676	19.501	21.830	17.473	1.00	19.78
	39	0	VAL	Α	676	20.421	21.827	16.646	1.00	19.99

TABLE 8 (continued)

ATOM ATOM TYPE RESIDUE # X Y Z OCC B 40 CB VAL A 676 19.718 22.442 19.934 1.00 41 CG1 VAL A 676 18.899 21.237 20.247 1.00 42 CG2 VAL A 676 21.192 22.095 20.065 1.00 43 N LEU A 677 18.530 20.923 17.434 1.00 44 CA LEU A 677 18.601 19.848 16.453 1.00 45 C LEU A 677 18.601 19.848 16.453 1.00 46 O LEU A 677 19.640 20.008 14.347 1.00 47 CB LEU A 677 17.383 18.921 16.518 1.00 48 CG LEU A 677 17.267 18.083 17.798 1.00 49 CD1 LEU A 677 17.267 18.083 17.798 1.00 49 CD1 LEU A 677 18.615 17.555 18.225 1.00 50 CD2 LEU A 677 18.615 17.555 18.225 1.00 51 N GLU A 678 17.980 21.445 14.736 1.00 52 CA GLU A 678 19.966 22.737 12.152 1.00 53 C GLU A 678 19.966 22.737 12.152 1.00 55 CB GLU A 678 19.966 22.737 12.152 1.00 56 CG GLU A 678 19.966 22.737 12.152 1.00 56 CG GLU A 678 15.532 22.646 13.381 1.00	ATOM
41 CG1 VAL A 676 18.899 21.237 20.247 1.00 42 CG2 VAL A 676 21.192 22.095 20.065 1.00 43 N LEU A 677 18.530 20.923 17.434 1.00 44 CA LEU A 677 18.601 19.848 16.453 1.00 45 C LEU A 677 18.668 20.427 15.068 1.00 46 O LEU A 677 19.640 20.008 14.347 1.00 47 CB LEU A 677 17.383 18.921 16.518 1.00 48 CG LEU A 677 17.267 18.083 17.798 1.00 49 CD1 LEU A 677 16.355 16.934 17.541 1.00 50 CD2 LEU A 677 18.615 17.555 18.225 1.00 51 N GLU A 678 17.980 21.445 14.736 1.00 52 CA GLU A 678 19.410 22.783 13.243 1.00 53 C GLU A 678 19.410 22.783 13.243 1.00 55 CB GLU A 678 19.966 22.737 12.152 1.00 56 CG GLU A 678 15.532 22.646 13.381 1.00	
10	21.33
10	24.09
15	21.88
45 C LEU A 677 18.768 20.427 15.068 1.00 46 O LEU A 677 19.640 20.008 14.347 1.00 47 CB LEU A 677 17.383 18.921 16.518 1.00 48 CG LEU A 677 17.267 18.083 17.798 1.00 49 CD1 LEU A 677 16.355 16.934 17.541 1.00 50 CD2 LEU A 677 18.615 17.555 18.225 1.00 51 N GLU A 678 17.980 21.445 14.736 1.00 52 CA GLU A 678 18.058 22.121 13.437 1.00 53 C GLU A 678 19.410 22.783 13.243 1.00 55 CB GLU A 678 19.966 22.737 12.152 1.00 56 CG GLU A 678 16.972 23.188 13.317 1.00 56 CG GLU A 678 15.532 22.646 13.381 1.00	19.08
15	17.91
15	16.96
47 CB LEU A 677 17.383 18.921 16.318 1.00 48 CG LEU A 677 17.267 18.083 17.798 1.00 49 CD1 LEU A 677 16.355 16.934 17.541 1.00 50 CD2 LEU A 677 18.615 17.555 18.225 1.00 51 N GLU A 678 17.980 21.445 14.736 1.00 52 CA GLU A 678 18.058 22.121 13.437 1.00 53 C GLU A 678 19.410 22.783 13.243 1.00 54 O GLU A 678 19.966 22.737 12.152 1.00 55 CB GLU A 678 16.972 23.188 13.317 1.00 56 CG GLU A 678 15.532 22.646 13.381 1.00	14.94
49 CD1 LEU A 677 16.355 16.934 17.541 1.00 50 CD2 LEU A 677 18.615 17.555 18.225 1.00 51 N GLU A 678 17.980 21.445 14.736 1.00 52 CA GLU A 678 18.058 22.121 13.437 1.00 53 C GLU A 678 19.410 22.783 13.243 1.00 54 O GLU A 678 19.966 22.737 12.152 1.00 55 CB GLU A 678 16.972 23.188 13.317 1.00 56 CG GLU A 678 15.532 22.646 13.381 1.00	17.50
20	16.78
51 N GLU A 678 17.980 21.445 14.736 1.00 52 CA GLU A 678 18.058 22.121 13.437 1.00 53 C GLU A 678 19.410 22.783 13.243 1.00 54 O GLU A 678 19.966 22.737 12.152 1.00 55 CB GLU A 678 16.972 23.188 13.317 1.00 56 CG GLU A 678 15.532 22.646 13.381 1.00	17.01
52 CA GLU A 678 18.058 22.121 13.437 1.00 53 C GLU A 678 19.410 22.783 13.243 1.00 54 O GLU A 678 19.966 22.737 12.152 1.00 55 CB GLU A 678 16.972 23.188 13.317 1.00 56 CG GLU A 678 15.532 22.646 13.381 1.00	17.10
53 C GLU A 678 19.410 22.783 13.243 1.00 54 O GLU A 678 19.966 22.737 12.152 1.00 55 CB GLU A 678 16.972 23.188 13.317 1.00 56 CG GLU A 678 15.532 22.646 13.381 1.00	19.12
54 O GLU A 678 19.966 22.737 12.152 1.00 55 CB GLU A 678 16.972 23.188 13.317 1.00 56 CG GLU A 678 15.532 22.646 13.381 1.00	20.06
54 O GLU A 678 19.966 22.737 12.152 1.00 55 CB GLU A 678 16.972 23.188 13.317 1.00 56 CG GLU A 678 15.532 22.646 13.381 1.00	19.33
56 CG GLU A 678 15.532 22.646 13.381 1.00	18.20
OD OUI A 070 14450 2070 12 297 1 00	23.33
57 CD GHI Δ 678 14 459 23 736 13 387 1 00	28.64
30 57 CD GLU A 6/8 14.459 23.736 13.367 1.00	32.31
58 OE1 GLU A 678 14.811 24.943 13.374 1.00	34.41
59 OE2 GLU A 678 13.253 23.384 13.410 1.00	34.91
60 N ALA A 679 19.966 23.324 14.329 1.00	19.45
61 CA ALA A 679 21.257 24.018 14.303 1.00	18.84
62 C ALA A 679 22.472 23.094 14.195 1.00	19.25
63 O ALA A 679 23.479 23.436 13.558 1.00	19.27
40 64 CB ALA A 679 21.388 24.919 15.517 1.00	17.67
65 N ILE A 680 22.395 21.914 14.802 1.00	18.82
66 CA ILE A 680 23.518 20.984 14.742 1.00	17.49
67 C ILE A 680 23.516 19.984 13.593 1.00	16.89
68 O ILE A 680 24.518 19.303 13.370 1.00	17.12
69 CB ILE A 680 23.674 20.231 16.056 1.00	17.05
70 CG1 ILE A 680 22.393 19.467 16.391 1.00	15.55
50 71 CG2 ILE A 680 24.022 21.213 17.158 1.00	16.83
72 CD1 ILE A 680 22.558 18.575 17.552 1.00	13.80
73 N GLU A 681 22.415 19.922 12.847 1.00	16.79
74 CA GLU A 681 22.265 19.002 11.719 1.00	17.26
75 C GLU A 681 23.370 19.128 10.673 1.00	18.79
76 O GLU A 681 23.517 20.173 10.043 1.00	20.09

TABLE 8 (continued)

		THREE-D	IMENSIONAL			ES OF AR II	N COMPLE	X WITH DE	HT.	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	77	СВ	GLU	Α	681	20.902	19.227	11.094	1.00	16.72
	78	CG	GLU	Α	681	20.579	18.300	9.952	1.00	18.48
	79	CD	GLU	Α	681	20.473	16.823	10.348	1.00	17.51
10	80	OE1	GLU	Α	681	20.659	16.502	11.524	1.00	17.58
	81	OE2	GLU	Α	681	20.214	15.981	9.467	1.00	18.59
	82	N	PRO	Α	682	24.145	18.044	10.437	1.00	19.02
	83	CA	PRO	A	682	25.252	18.021	9.472	1.00	19.11
15	84	С	PRO	Α	682	24.912	18.475	8.057	1.00	19.76
	85	0	PRO	Α	682	23.771	18.382	7.625	1.00	21.13
	86	СВ	PRO	Α	682	25.681	16.546	9.493	1.00	18.30
20	87	CG	PRO	Α	682	25.338	16.109	10.846	1.00	17.08
	88	CD	PRO	A	682	23.969	16.704	11.019	1.00	18.22
	89	N	GLY	Α	683	25.901	18.995	7.339	1.00	20.64
25	90	CA	GLY	Α	683	25.665	19.422	5.972	1.00	21.67
25	91	С	GLY	Α	683	25.809	18.260	4.990	1.00	23.13
	92	0	GLY	Α	683	25.595	17.108	5.355	1.00	23.47
	93	N	VAL	Α	684	26.190	18.567	3.748	1.00	23.58
30	94	CA	VAL	Α	684	26.365	17.573	2.685	1.00	22.44
	95	С	VAL	Α	684	27.725	16.934	2.811	1.00	20.64
	96	0	VAL	Α	684	28.708	17.614	3.042	1.00	19.82
35	97	СВ	VAL	Α	684	26.320	18.216	1.259	1.00	24.93
	98	CG1	VAL	A	684	26.217	17.130	0.183	1.00	24.57
	99	CG2	VAL	Α	684	25.153	19.228	1.131	1.00	24.89
	100	N	VAL	Α	685	27.778	15.631	2.585	1.00	19.05
40	101	CA	VAL	Α	685	29.012	14.878	2.665	1.00	17.89
	102	С	VAL	Α	685	29.143	14.112	1.345	1.00	17.88
	103	0	VAL	Α	685		13.367	0.969	1.00	18.33
45	104	СВ	VAL	Α	685	28.955	13.857	3.867	1.00	17.81
	105	CG1	VAL	Α	685	30.303	13.189	4.086	1.00	15.58
	106	CG2	VAL	Α	685	28.527	14.556	5.147	1.00	16.27
	107	N	CYS	Α	686	30.224	14.339	0.609	1.00	17.00
50	108	CA	CYS	Α	686	30.451	13.628	-0.650	1.00	17.52
	109	С	CYS	Α	686	31.354	12.447	-0.327	1.00	16.97
	110	0	CYS	Α	686	32.141	12.496	0.615	1.00	17.15
55	111	СВ	CYS	Α	686	31.101	14.534	-1.706	1.00	17.76
	112	SG	CYS	Α	686	30.166	16.031	-2.147	1.00	21.38
	113	N	ALA	Α	687	31.183	11.360	-1.065	1.00	17.74

TABLE 8 (continued)

		THREE-D	IMENSIONAL	COO	RDINA	TES OF AR I	N COMPLE	X WITH DI	-IT	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	АТОМ
5	114	CA	ALA	Α	687	31.949	10.132	-0.836	1.00	17.57
	115	С	ALA	Α	687	33.277	10.161	-1.526	1.00	18.06
	116	0	ALA	Α	687	34.185	9.431	-1.139	1.00	17.98
10	117	СВ	ALA	Α	687	31.161	8.929	-1.295	1.00	16.91
	118	N	GLY	Α	688	33.370	11.023	-2.539	1.00	18.50
	119	CA	GLY	Α	688	34.580	11.167	-3.326	1.00	19.16
	120	С	GLY	Α	688	34.705	10.099	-4.388	1.00	19.90
15	121	0	GLY	Α	688	35.802	9.730	-4.771	1.00	20.86
	122	N	HIS	Α	689	33.582	9.630	-4.907	1.00	20.92
	123	CA	HIS	Α	689	33.577	8.576	-5.912	1.00	22.43
20	124	С	HIS	Α	689	33.923	9.063	-7.328	1.00	24.19
	125	0	HIS	Α	689	33.511	10.145	-7.731	1.00	24.06
	126	СВ	HIS	Α	689	32.195	7.917	-5.900	1.00	22.00
05	127	CG	HIS	Α	689	32.046	6.775	-6.857	1.00	22.28
25	128	ND1	HIS	Α	689	31.040	6.724	-7.796	1.00	22.44
	129	CD2	HIS	Α	689	32.782	5.656	-7.033	1.00	22.64
	130	CE1	HIS	Α	689	31.166	5.627	-8.516	1.00	23.43
30	131	NE2	HIS	Α	689	32.219	4.960	-8.074	1.00	23.78
	132	N	ASP	Α	690	34.719	8.296	-8.073	1.00	26.27
	133	CA	ASP	Α	690	35.017	8.691	-9.447	1.00	28.86
35	134	С	ASP	Α	690	33.872	8.164	-10.286	1.00	30.15
55	135	0	ASP	Α	690	33.701	6.952	-10.409	1.00	30.46
	136	СВ	ASP	Α	690	36.330	8.096	-9.963	1.00	28.93
	137	CG	ASP	Α	690	36.696	8.618	-11.361	1.00	30.03
40	138	OD1	ASP	Α	690	37.868	8.497	-11.764	1.00	31.23
	139	OD2	ASP	Α	690	35.819	9.170	-12.061	1.00	29.72
	140	N	ASN	Α	691	33.065	9.067	-10.832	1.00	32.35
45	141	CA	ASN	Α	691	31.933	8.660	-11.655	1.00	33.60
	142	С	ASN	Α	691	32.284	8.608	-13.136	1.00	35.13
	143	0	ASN	Α	691	31.419	8.733	-13.999	1.00	36.66
	144	СВ	ASN	Α	691	30.725	9.562	-11.416	1.00	32.74
50	145	CG	ASN	Α	691	30.079	9.313	-10.074	1.00	32.95
	146	OD1	ASN	Α	691	29.187	8.474	-9.930	1.00	32.13
	147	ND2	ASN	Α	691	30.547	10.024	-9.069	1.00	33.57
55	148	N	ASN	Α	692	33.565	8.471	-13.434	1.00	36.15
	149	CA	ASN	Α	692	33.995	8.365	-14.819	1.00	37.44
	150	С	ASN	Α	692	34.425	6.913	-15.027	1.00	38.39

TABLE 8 (continued)

	TABLE 8 (continued) THREE-DIMENSIONAL COORDINATES OF AR IN COMPLEX WITH DHT											
	ATOM	ATOM TYPE	RESIDUE	#	X	Υ Υ	Z	occ		ATOM		
5	151	0	ASN	A	692	34.414	6.406	-16.139	1.00	39.10		
	152	СВ	ASN	A	692	35.148	9.328	-15.103	1.00	36.71		
	153	N	GLN	Α	693	34.757	6.241	-13.928	1.00	39.29		
10	154	CA	GLN	A	693	35.200	4.849	-13.942	1.00	40.00		
	155	С	GLN	A	693	33.988	3.939	-13.854	1.00	39.48		
	156	0	GLN	Α	693	32.997	4.298	-13.217	1.00	40.11		
	157	СВ	GLN	Α	693	36.131	4.577	-12.745	1.00	41.81		
15	158	CG	GLN	Α	693	37.538	4.029	-13.110	1.00	44.34		
	159	CD	GLN	Α	693	38.420	5.017	-13.902	1.00	45.44		
	160	OE1	GLN	Α	693	39.378	5.587	-13.363	1.00	45.95		
20	161	NE2	GLN	Α	693	38.115	5.193	-15.186	1.00	45.47		
	162	N	PRO	Α	694	34.055	2.743	-14.485	1.00	38.78		
	163	CA	PRO	Α	694	32.970	1.762	-14.489	1.00	36.98		
0E	164	С	PRO	Α	694	32.575	1.304	-13.109	1.00	35.56		
25	165	0	PRO	Α	694	33.411	1.198	-12.204	1.00	35.44		
	166	СВ	PRO	A	694	33.571	0.601	-15.265	1.00	37.17		
	167	CG	PRO	Α	694	34.432	1.271	-16.234	1.00	38.48		
30	168	CD	PRO	A	694	35.138	2.286	-15.375	1.00	38.88		
	169	N	ASP	Α	695	31.289	1.022	-12.958	1.00	34.27		
	170	CA	ASP	Α	695	30.776	0.534	-11.698	1.00	32.38		
35	171	С	ASP	Α	695	31.318	-0.868	-11.524	1.00	32.55		
	172	0	ASP	A	695	31.237	-1.707	-12.429	1.00	33.50		
	173	СВ	ASP	Α	695	29.251	0.518	-11.694	1.00	29.77		
	174	CG	ASP	Α	695	28.660	1.901	-11.608	1.00	28.80		
40	175	OD1	ASP	Α	695	27.532	2.100	-12.089	1.00	27.09		
	176	OD2	ASP	Α	695	29.329	2.794	-11.057	1.00	28.72		
	177	N	SER	Α	696	32.025	-1.052	-10.424	1.00	31.71		
45	178	CA	SER	Α	696	32.577	-2.333	-10.077	1.00	30.42		
	179	С	SER	Α	696	32.340	-2.445	-8.577	1.00	30.15		
	180	0	SER	Α	696	32.275	-1.418	-7.885	1.00	30.10		
	181	СВ	SER	Α	696	34.064	-2.383	-10.425	1.00	30.43		
50	182	OG	SER	Α	696	34.854	-1.589	-9.567	1.00	31.47		
	183	N	PHE	_A	697	32.104	-3.669	-8.099	1.00	28.48		
	184	CA	PHE	Α	697	31.890	-3.933	-6.679	1.00	26.74		
55	185	С	PHE	Α	697	32.956	-3.205	-5.846	1.00	26.76		
	186	0	PHE	Α	697	32.641	-2.393	-4.972	1.00	27.12		
	187	СВ	PHE	Α	697	31.982	-5.442	-6.423	1.00	25.46		

TABLE 8 (continued)

	THREE_F	IMENICIONA	1 000	DINIA	TEC OF AD	NI COMPLI	TV WITH D		
THREE-DIMENSIONAL COORDINATES OF AR IN COMPLEX WITH DHT ATOM ATOM TYPE RESIDUE # X Y Z OCC B ATOM									
188	CG	RESIDUE	#	X	Y	Z	occ	В	ATOM
		PHE	A	697	31.781	-5.827	-4.989	1.00	24.31
189	CD1	PHE	A .	697	30.536	-5.722	-4.398	1.00	24.48
190	CD2	PHE	A	697	32.845	-6.281	-4.220	1.00	24.78
191	CE1	PHE	A	697	30.344	-6.063	-3.071	1.00	24.65
192	CE2	PHE	A	697	32.659	-6.626	-2.886	1.00	24.77
193	CZ	PHE	Α	697	31.406	-6.512	-2.315	1.00	24.30
194	N	ALA	Α	698	34.219	-3.495	-6.140	1.00	25.86
195	CA	ALA	Α	698	35.351	-2.911	-5.436	1.00	24.97
196	С	ALA	Α	698	35.323	-1.402	-5.300	1.00	25.24
197	0	ALA	Α	698	35.559	-0.852	-4.216	1.00	24.99
198	СВ	ALA	Α	698	36.596	-3.305	-6.131	1.00	25.52
199	N	ALA	Α	699	35.029	-0.737	-6.414	1.00	25.11
200	CA	ALA	Α	699	35.001	0.717	-6.490	1.00	23.76
201	С	ALA	Α	699	33.873	1.281	-5.668	1.00	22.91
202	0	ALA	Α	699	34.084	2.133	-4.795	1.00	22.51
203	СВ	ALA	Α	699	34.845	1.156	-7.943	1.00	24.31
204	N	LEU	Α	700	32.682	0.770	-5.957	1.00	21.56
205	CA	LEU	Α	700	31.440	1.185	-5.314	1.00	20.84
206	С	LEU	Α	700	31.456	0.977	-3.793	1.00	20.77
207	0	LEU	Α	700	30.891	1.765	-3.035	1.00	19.67
208	СВ	LEU	Α	700	30.274	0.397	-5.937	1.00	19.59
209	CG	LEU	Α	700	29.249	0.984	-6.911	1.00	18.78
210	CD1	LEU	Α	700	29.727	2.269	-7.529	1.00	18.69
211	CD2	LEU	Α	700	28.952	-0.015	-7.957	1.00	17.10
212	N	LEU	Α	701	32.103	-0.093	-3.350	1.00	20.77
213	CA	LEU	Α	701	32.147	-0.367	-1.941	1.00	20.58
214	С	LEU	Α	701	33.261	0.365	-1.241	1.00	20.86
215	0	LEU	Α	701	33.126	0.734	-0.088	1.00	21.69
216	СВ	LEU	Α	701	32.099	-1.871	-1.670	1.00	19.52
217	CG	LEU	Α	701	30.582	-2.050	-1.567	1.00	19.40
218	CD1	LEU	Α	701	30.046	-2.911	-2.642	1.00	17.73
219	CD2	LEU	Α	701	30.173	-2.510	-0.217	1.00	17.25
220	N	SER	Α	702	34.356	0.615	-1.937	1.00	21.06
221	CA	SER	Α	702	35.406	1.378	-1.316	1.00	20.96
222	С	SER	Α	702	34.874	2.791	-1.105	1.00	20.81
223	0	SER	Α	702	35.187	3.423	-0.103	1.00	20.82
224	СВ	SER	Α	702	36.632	1.400	-2.190	1.00	21.52

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TABLE 8 (continued)

		THREE-D	IMENSIONAL	L COO	RDINAT	ES OF AR II	COMPLE	X WITH DI	11	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
	225	OG	SER	Α	702	37.204	0.120	-2.175	1.00	23.71
	226	N	SER	Α	703	34.023	3.250	-2.028	1.00	20.55
	227	CA	SER	Α	703	33.443	4.585	-1.934	1.00	18.91
,	228	O	SER	Α	703	32.470	4.678	-0.793	1.00	18.35
	229	0	SER	Α	703	32.520	5.625	-0.025	1.00	18.89
	230	СВ	SER	Α	703	32.755	4.966	-3.224	1.00	18.44
	231	OG	SER	Α	703	33.748	5.182	-4.194	1.00	20.63
•	232	N	LEU	A	704	31.596	3.684	-0.662	1.00	17.26
	233	CA	LEU	Α	704	30.639	3.687	0.432	1.00	16.37
	234	С	LEU	Α	704	31.366	3.678	1.761	1.00	16.10
,	235	0	LEU	Α	704	30.925	4.340	2.696	1.00	16.81
	236	СВ	LEU	Α	704	29.691	2.497	0.342	1.00	15.19
	237	CG	LEU	Α	704	28.558	2.583	-0.660	1.00	14.03
	238	CD1	LEU	Α	704	27.882	1.259	-0.748	1.00	12.28
'	239	CD2	LEU	Α	704	27.582	3.681	-0.235	1.00	14.48
	240	N	ASN	Α	705	32.495	2.961	1.829	1.00	16.70
	241	CA	ASN	Α	705	33.307	2.863	3.049	1.00	16.66
,	242	С	ASN	Α	705	33.955	4.201	3.410	1.00	17.17
	243	0	ASN	Α	705	33.970	4.587	4.570	1.00	17.46
	244	СВ	ASN	Α	705	34.398	1.794	2.924	1.00	15.46
:	245	CG	ASN	A	705	33.850	0.384	2.941	1.00	16.24
	246	OD1	ASN	Α	705	34.448	-0.512	2.385	1.00	16.82
	247	ND2	ASN	A	705	32.726	0.180	3.592	1.00	16.07
	248	N	GLU	Α	706	34.512	4.882	2.415	1.00	17.04
'	249	CA	GLU	A	706	35.151	6.193	2.598	1.00	17.55
	250	С	GLU	Α	706	34.089	7.180	3.069	1.00	16.10
	251	0	GLU	Α	706	34.313	8.023	3.950	1.00	16.62
. [252	СВ	GLU	Α	706	35.739	6.668	1.258	1.00	18.93
	253	CG	GLU	Α	706	36.394	8.029	1.282	1.00	21.19
	254	CD	GLU	Α	706	37.488	8.146	2.347	1.00	23.68
	255	OE1	GLU	Α	706	37.586	9.225	2.978	1.00	25.14
'	256	OE2	GLU	Α	706	38.246	7.175	2.569	1.00	24.37
	257	N	LEU	Α	707	32.927	7.076	2.445	1.00	15.13
	258	CA	LEU	Α	707	31.803	7.916	2.792	1.00	14.21
	259	С	LEU	Α	707	31.461	7.634	4.228	1.00	14.91
	260	0	LEU	Α	707	31.121	8.557	4.980	1.00	15.85
	261	СВ	LEU	Α	707	30.604	7.579	1.925	1.00	12.85
•										

		THREE-D	IMENSIONAL	COO	RDINAT	ES OF AR II	COMPLE	X WITH DI	IT	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	АТОМ
5	262	CG	LEU	Α	707	29.318	8.262	2.328	1.00	12.03
	263	CD1	LEU	Α	707	29.537	9.745	2.280	1.00	13.09
	264	CD2	LEU	Α	707	28.252	7.889	1.374	1.00	12.74
10	265	N	GLY	Α	708	31.532	6.358	4.602	1.00	13.93
	266	CA	GLY	Α	708	31.230	5.976	5.965	1.00	12.96
	267	С	GLY	Α	708	32.213	6.620	6.917	1.00	13.13
	268	0	GLY	Α	708	31.849	7.061	7.987	1.00	13.55
15	269	N	GLU	Α	709	33.468	6.687	6.514	1.00	14.14
	270	CA	GLU	Α	709	34.525	7.279	7.322	1.00	15.83
	271	C	GLU	Α	709	34.334	8.775	7.486	1.00	16.65
20	272	0	GLU	Α	709	34.628	9.317	8.563	1.00	17.59
	273	СВ	GLU	Α	709	35.874	7.046	6.658	1.00	16.73
	274	CG	GLU	Α	709	37.051	7.547	7.446	1.00	18.68
	275	CD	GLU	Α	709	37.573	6.514	8.401	1.00	21.63
25	276	OE1	GLU	Α	709	36.766	5.660	8.826	1.00	23.39
	277	OE2	GLU	Α	709	38.784	6.544	8.723	1.00	23.17
	278	N	ARG	Α	710	33.845	9.427	6.428	1.00	16.70
30	279	CA	ARG	Α	710	33.616	10.869	6.418	1.00	17.32
	280	С	ARG	Α	710	32.376	11.230	7.218	1.00	17.85
	281	0	ARG	Α	710	32.379	12.156	8.034	1.00	17.75
35	282	СВ	ARG	Α	710	33.459	11.346	4.990	1.00	16.07
35	283	CG	ARG	Α	710	34.659	11.098	4.137	1.00	16.18
	284	CD	ARG	Α	710	34.329	11.498	2.706	1.00	16.39
	285	NE	ARG	Α	710	35.512	11.535	1.850	1.00	15.28
40	286	CZ	ARG	Α	710	35.587	12.246	0.733	1.00	15.30
	287	NH1	ARG	Α	710	34.550	12.975	0.357	1.00	14.96
	288	NH2	ARG	Α	710	36.691	12.242	0.001	1.00	14.89
45	289	N	GLN	Α	711	31.291	10.516	6.955	1.00	18.71
.0	290	CA	GLN	Α	711	30.067	10.745	7.697	1.00	19.38
	291	С	GLN	Α	711	30.209	10.494	9.188	1.00	19.48
	292	0	GLN	Α	711	29.564	11.183	9.985	1.00	19.57
50	293	СВ	GLN	Α	711	28.908	9.938	7.127	1.00	19.79
	294	CG	GLN	Α	711	28.377	10.566	5.878	1.00	22.36
	295	CD	GLN	Α	711	27.058	10.010	5.446	1.00	23.37
55	296	OE1	GLN	Α	711	26.758	9.932	4.244	1.00	25.35
	297	NE2	GLN	Α	711	26.228	9.677	6.410	1.00	24.52
	298	N	LEU	Α	712	31.043	9.529	9.571	1.00	18.76

TABLE 8 (continued)

		THREE-D	IMENSIONA	L COO	RDINA	TES OF AR I	N COMPLE	X WITH DI	⊣ T	
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	299	CA	LEU	Α	712	31.259	9.227	10.984	1.00	19.20
	300	С	LEU	Α	712	31.876	10.428	11.704	1.00	19.23
	301	0	LEU	Α	712	31.507	10.743	12.834	1.00	17.65
10	302	СВ	LEU	Α	712	32.163	8.008	11.157	1.00	20.55
	303	CG	LEU	Α	712	32.522	7.607	12.590	1.00	21.95
	304	CD1	LEU	Α	712	31.288	7.641	13.484	1.00	23.43
15	305	CD2	LEU	Α	712	33.132	6.223	12.586	1.00	22.57
15	306	N	VAL	Α	713	32.809	11.099	11.039	1.00	19.70
	307	CA	VAL	Α	713	33.427	12.270	11.619	1.00	19.68
	308	С	VAL	Α	713	32.328	13.277	11.990	1.00	19.53
20	309	0	VAL	Α	713	32.325	13.802	13.086	1.00	20.00
	310	СВ	VAL	Α	713	34.453	12.859	10.658	1.00	20.01
	311	CG1	VAL	Α	713	34.722	14.292	11.001	1.00	21.16
25	312	CG2	VAL	Α	713	35.750	12.069	10.750	1.00	20.06
25	313	N	HIS	Α	714	31.330	13.434	11.128	1.00	19.20
	314	CA	HIS	Α	714	30.215	14.356	11.358	1.00	19.47
	315	С	HIS	A	714	29.183	13.885	12.383	1.00	18.83
30	316	0	HIS	Α	714	28.497	14.701	13.005	1.00	18.73
	317	СВ	HIS	Α	714	29.498	14.658	10.038	1.00	20.77
	318	CG	HIS	Α	714	30.331	15.410	9.058	1.00	21.60
35	319	ND1	HIS	Α	714	30.131	16.744	8.784	1.00	22.32
	320	CD2	HIS	Α	714	31.369	15.016	8.283	1.00	22.31
	321	CE1	HIS	A	714	31.005	17.139	7.876	1.00	23.41
].	322	NE2	HIS	Α	714	31.768	16.113	7.557	1.00	23.22
40	323	N	VAL	Α	715	29.006	12.572	12.485	1.00	18.39
	324	CA .	VAL	Α	715	28.063	11.972	13.434	1.00	16.86
	325	С	VAL	Α	715	28.667	12.166	14.817	1.00	15.60
45	326	0	VAL	Α	715	27.958	12.422	15.788	1.00	15.49
	327	CB .	VAL	Α	715	27.869	10.435	13.134	1.00	16.78
	328	CG1	VAL	Α	715	27.037	9.756	14.197	1.00	17.10
	329	CG2	VAL	Α	715	27.183	10.259	11.817	1.00	17.34
50	330	N	VAL	Α .	716	29.986	12.077	14.913	1.00	15.13
	331	CA	VAL	Α	716	30.622	12.250	16.205	1.00	15.01
	332	С	VAL	Α	716	30.419	13.681	16.708	1.00	15.83
55	333	0	VAL	Α	716	30.129	13.883	17.887	1.00	16.61
Į	334	СВ	VAL	Α	716	32.136	11.885	16.158	1.00	14.93
Į	335	CG1	VAL	Α	716	32.825	12.233	17.481	1.00	13.26

			TAB	LE 8	3 (C	ontir	ued)	COME	PLEX \	WITH	DHT						
Γ		THREE-		_		RDIN	VALE		Y	Z		occ	\top	В	A	ГОМ	
	ATOM	ATOM TYPE	RES	IDUE	#	X	-+	32.	+	10.3	73	15.87	0 1	.00	14	.26	
ľ	336	CG2		AL		—	16 17		544	14.6	65	15.81	6	1.00	16	6.59	
Ī	337	N		YS	_ <u>A</u> _	+-	17		390	16.0	82	16.18	33	1.00	1	7.20	
Ţ	338	CA		YS	A .	┼	17		951	16.3	387	16.5	34	1.00	1	6.77	
o	339	С		YS	A	-	17		658	16.9	931	17.5	93	1.00	1	8.49	İ
	340	0	L	_YS	A	+			.884	16.9	974	15.0	41	1.00	1	8.94	
	341	СВ	_ \	LYS	A	4	717	 	.361		747	14.6	98	1.00) [2	22.56	
	342	CG		LYS	A		717	-	3.245		752	15.9	78	1.00	5] 2	25.34	
15	343	CD		LYS	A		717	+-	1.294		.609	16.0	007	1.0	5 C	27.06	
	344	CE		LYS		-	717 	+-			.195	17.	410	1.0	0	27.21	
	345	NZ		LYS	A		717	+-	4.709		.976	15.	659	1.0	0	15.68	
00	346	N		TRP	A	4	718	+-	8.049		5.143	15.	868	1.0	0	14.61	
20	347	CA		TRP	A		718	+-	6.618		5.562	17.	.261	1.0	00	15.34	
	348	C		TRP	_ A	\perp	718	-	6.200		6.269	18	.124	1.0	00	14.55	٦
	349	0		TRP	<i>F</i>	1	718 		5.659		5.442	14	.689	1.0	00	11.97	٦
25	350	СВ		TRP		1	718	_	25.889		5.266		.841	1.	00	9.66	٦
	351	CG		TRP		A	71		24.433		6.199	+-	1.645	1.	00	9.89	
	352	CD1		TRP		A	71		23.472	_	4.069	 - -	5.254	1	.00	10.28	
	353	CD2		TRP		Α	71	8	23.757		15.688	+-	4.918	1	.00	8.38	
30	354	NET.		TRP		A	71	8	22.228		14.371	+	5.293		.00	9.98	,
	355	CE2		TRP		Α	71	18	22.373	_	12.778		5.612	+-	.00	10.09)
	350	CES		TRP		Α	7	18	24.176		13.419	_	5.663	+-	.00	9.00)
35	35	070		TRP		Α	7	18	21.394		11.83		15.980	-+-	1.00	8.20)
	35	072		TRP		Α	7	18	23.201		12.17		16.00	-+	1.00	7.3	2
	35	CUI	2	TRP		Α	7	18	21.835	-+			17.46	_	1.00	16.1	0
40	36	<u></u>		ALA		Α	7	719	26.468		14.27	- +-	18.68		1.00	15.0	3
40	36			ALA		Α	17	719	26.143		13.55		19.88	-+-	1.00	15.6	 32
	L	62 C		ALA		Α		719	26.623		14.34		20.78		1.00	15.8	 35
		63 O		ALA	1	Α		719	25.85		14.64		18.65		1.00	13.5	 59
45	 	64 CF	3	AL	4	Α		719	26.79		12.1		19.8	+	1.0		<u></u>
	 	65 N		LY:	S	Α		720	27.87		14.7		20.9		1.0		63
	 	66 C	Α	LY	S	Α		720	28.46		15.5		21.2		1.0	0 18.	 .98
		367		LY	S	A		720			16.8		22.3		1.0		 .86
50	├		 o	LY	S	A		720			17.3	+	20.7		1.0		.8
	 		В	LY	'S	1		720	29.9	70	15.0		21.0		1.0		.18
	<u> </u>	303	G	L	/S	1	4	720	30.6	44	<u> </u>	292	20.		├	00 23	_
55	<u> </u>	370	DD	L	/S	1	A	72	32.1	36		334		244	├		5.8
	<u> </u>	371	CE	+	YS	\top	A	72	32.7	62	12.	975	21.		٠		

		THREE-D	IMENSIONAL	L COO	RDINA	TES OF AR I	N COMPLE	X WITH D	-IT	
_	ATOM	ATOM TYPE	RESIDUE	#	х	Υ	Z	occ	В	ATOM
5	373	NZ	LYS	Α	720	32.729	12.661	22.708	1.00	26.70
	374	N	ALA	Α	721	27.070	17.369	20.238	1.00	18.21
	375	CA	ALA	Α	721	26.406	18.651	20.382	1.00	18.10
10	376	С	ALA	Α	721	24.941	18.492	20.675	1.00	18.80
	377	0	ALA	Α	721	24.192	19.485	20.660	1.00	19.16
	378	СВ	ALA	Α	721	26.584	19.461	19.146	1.00	17.43
	379	N	LEU	Α	722	24.518	17.247	20.904	1.00	19.00
15	380	CA	LEU	Α	722	23.119	16.912	21.207	1.00	19.60
	381	C	LEU	Α	722	22.754	17.362	22.616	1.00	20.27
	382	0	LEU	Α	722	23.521	17.125	23.549	1.00	21.72
20	383	СВ	LEU	Α	722	22.955	15.395	21.119	1.00	19.45
	384	CG	LEU	Α	722	21.855	14.771	20.271	1.00	19.62
	385	CD1	LEU	Α	722	21.540	15.657	19.099	1.00	17.02
05	386	CD2	LEU	Α	722	22.298	13.382	19.815	1.00	17.38
25	387	N	PRO	Α	723	21.574	17.992	22.811	1.00	20.69
	388	CA	PRO	Α	723	21.211	18.428	24.167	1.00	21.24
	389	С	PRO	Α	723	21.266	17.287	25.195	1.00	21.66
30	390	0	PRO	Α	723	20.821	16.165	24.935	1.00	21.14
	391	СВ	PRO	Α	723	19.767	18.917	23.997	1.00	20.40
	392	CG	PRO	Α	723	19.706	19.349	22.624	1.00	20.05
35	393	CD	PRO	Α	723	20.500	18.317	21.861	1.00	20.29
33	394	N	GLY	Α	724	21.800	17.588	26.369	1.00	22.02
	395	CA	GLY	Α	724	21.874	16.598	27.416	1.00	22.29
	396	С	GLY	Α	724	22.838	15.478	27.132	1.00	23.13
40	397	0	GLY	Α	724	23.076	14.658	28.004	1.00	23.78
	398	N	PHE	Α	725	23.434	15.446	25.946	1.00	24.14
	399	CA	PHE	Α	725	24.360	14.368	25.610	1.00	24.24
45	400	С	PHE	Α	725	25.505	14.170	26.582	1.00	24.85
	401	0	PHE	Α	725	25.873	13.028	26.863	1.00	23.79
	402	СВ	PHE	Α	725	24.915	14.554	24.214	1.00	23.59
	403	CG	PHE	Α	725	25.648	13.353	23.703	1.00	23.80
50	404	CD1	PHE	Α	725	24.944	12.239	23.260	1.00	22.83
ĺ	405	CD2	PHE	Α	725	27.046	13.328	23.675	1.00	22.40
	406	CE1	PHE	Α	725	25.623	11.130	22.804	1.00	22.77
55	407	CE2	PHE	Α	725	27.731	12.226	23.221	1.00	21.05
	408	CZ	PHE	Α	725	27.025	11.123	22.784	1.00	22.31
	409	N	ARG	Α	726	26.083	15.270	27.070	1.00	25.97

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			TAI	BLE	8 (contir	nued)	COM	PI FX \	NITH I	DHT					
Г		THREE	-DIMEN	SIONAL	coc	RD	TAN	ES C	F AH IN	Z		occ		В	ATO	М
+	ATOM	ATOM TYPI		IDUE	#	1	×			15.2		28.03		.00	27.6	3
5	410	CA	A	RG	Α_		726	27.		14.6		29.42	3 1	.00	27.2	4
ŀ	411	С	Α	RG	Α		726		902	14.4		30.25	3 1	.00	27.0)8
Ì	412	0	P	RG	Α		726	├ ──	797	16.0		28.20	4	.00	29.	27
,	413	СВ	/	ARG	A	4	726	1	.831		087	26.99	5	1.00	31.	68
10	414	CG		ARG	A	\perp	726	—	.622		141	26.7	27	1.00	34.	22
	415	CD		ARG	A	1	726	+-	1.759 		.595	25.6	70	1.00	37	.18
	416	NE		ARG	A	4	726	+-	0.657		.090	25.4	64	1.00	38	.28
15	417	CZ		ARG	A	1	726	+-	1.872		.558	24.4	86	1.00	39	.44
	418	NH1		ARG	1	1	726		2.635		5.109	26.2	232	1.00	38	3.78
	419	NH2		ARG	1	4	726	+-	2.329		1.316	29.	683	1.00	27	7.15
	420	N		ASN	1	A	72		5.632		3.695	30.	938	1.00) 2	6.29
20	421	CA		ASN		A	72		25.244		2.261	30.	934	1.00) 2	6.17
	422	C		ASN		Α	72		25.750		1.689	↓	994	1.0	0 2	7.30
	423	-		ASN		Α	72		25.992		3.687	31	.115	1.0	0 2	5.46
25	424	CB		ASN		Α	72	27	23.717		15.085	31	.195	1.0	0 2	24.95
	425	CG	1	ASN		A	7:	27	23.118		15.277	30	.893	1.0	00 2	24.88
	426	00	1	ASN	\perp	Α	4-	27	21.947		16.055	+	.628	1.0	00	24.54
	42	110	2	ASN		A	17	27	23.909		11.673		9.749	1.0	00	25.64
30	42			LEU		Α	17	28	25.895		10.289	-	9.625	1.	00	25.16
	42		A	LEU		A	1	728	26.362		10.20	-	9.974	+-	00	25.79
	43		;	LEU		_A		728	27.833	-+	11.15		9.739		.00	25.15
35	43		5	LEU		A		728	28.571		9.75		28.190	1	.00	22.98
	ļ		В	LEU		Α	\perp	728	26.19		9.71		 27.448	3 1	.00	20.68
	\		;G	LEU		A	1	728	24.85		9.13	-+-	26.07	6 1	.00	19.66
40	 		D1	LEL	j	A	\perp	728	25.08		8.8	-+	28.20	3	1.00	19.79
40	 		:D2	LE	J	1	1	728	23.85		9.0		30.51	6	1.00	27.05
	<u> </u>	36	N	HIS	3	1	4	729	28.24		8.8		30.87	71	1.00	28.68
			CA	HIS	3	1	<u> </u>	729	+			72	29.57	77	1.00	29.25
45	 	138	С	HI	S	1_	A	729	+			82	28.5	94	1.00	29.28
		439	0	HI	s	_	A	729				155	31.5	70	1.00	30.72
		440	СВ	HI	S	\perp	Α	729				042	31.9	43	1.00	33.13
50	-	441	CG	Н	IS	\perp	Α	72	-+		 	603	33.2	209	1.00	34.2
30	-		ND1	Н	IS	\perp	<u> </u>	72	-		+-	978	31.2	218	1.00	33.5
	-	443	CD2	Н	IS	\perp	Α	72		276 	→	293	33.	247	1.00	34.6
55	-	444	CE1	F	IIS	\perp	A	72		744		.510	32.	049	1.00	34.5
	-	445	NE2	H	IIS	\perp	Α	72		263		.295	29.	625	1.0	0 30.2
	-	446	N	1	/AL	١	Α	7:	30 31	.681 			L			

TABLE 8 (continued)

		THREE-C	IMENSIONAL	L COO	RDINA	TES OF AR I	N COMPLE	X WITH DE	łT	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	447	CA	VAL	Α	730	32.592	9.365	28.465	1.00	31.02
	448	С	VAL	Α	730	32.662	8.108	27.600	1.00	30.89
	449	0	VAL	Α	730	32.704	8.192	26.371	1.00	30.40
10	450	СВ	VAL	Α	730	34.036	9.793	28.898	1.00	32.08
	451	CG1	VAL	Α	730	35.077	9.446	27.811	1.00	32.91
	452	CG2	VAL	Α	730	34.074	11.284	29.176	1.00	31.86
	453	N	ASP	Α	731	32.770	6.956	28.244	1.00	30.81
15	454	CA	ASP	Α	731	32.819	5.709	27.509	1.00	31.55
	455	С	ASP	Α	731	31.474	5.425	26.889	1.00	28.94
	456	0	ASP	A	731	31.408	4.912	25.789	1.00	29.47
20	457	СВ	ASP	A	731	33.244	4.536	28.410	1.00	36.23
	458	CG	ASP	Α	731	32.966	3.152	27.771	1.00	40.32
	459	OD1	ASP	Α	731	31.837	2.619	27.974	1.00	42.21
25	460	OD2	ASP	A	731	33.867	2.599	27.075	1.00	42.23
25	461	N	ASP	Α	732	30.403	5.760	27.587	1.00	26.17
	462	CA	ASP	Α	732	29.079	5.510	27.057	1.00	24.53
	463	С	ASP	Α	732	28.770	6.387	25.875	1.00	23.96
30	464	0	ASP	Α	732	28.030	5.982	24.981	1.00	22.56
	465	СВ	ASP	Α	732	28.024	5.711	28.119	1.00	24.04
	466	CG	ASP	Α	732	28.073	4.654	29.186	1.00	23.64
35	467	OD1	ASP	Α	732	28.728	3.592	28.984	1.00	22.31
55	468	OD2	ASP	A	732	27.444	4.904	30.231	1.00	23.89
	469	N	GLN	Α	733	29.288	7.612	25.920	1.00	23.56
	470	CA	GLN	Α	733	29.121	8.591	24.855	1.00	22.94
40	471	С	GLN	Α	733	29.636	7.997	23.557	1.00	23.20
	472	0	GLN	Α	733	28.979	8.075	22.522	1.00	23.08
	473	СВ	GLN	Α	733	29.942	9.847	25.166	1.00	22.73
45	474	CG	GLN	Α	733	29.359	10.776	26.225	1.00	23.24
	475	CD	GLN	Α	733	30.208	12.013	26.480	1.00	23.27
	476	OE1	GLN	Α	733	30.018	12.696	27.477	1.00	24.33
	477	NE2	GLN	Α	733	31.130	12.316	25.577	1.00	23.47
50	478	N	MET	Α	734	30.853	7.459	23.625	1.00	23.37
	479	CA	MET	Α	734	31.545	6.832	22.508	1.00	24.31
	480	С	MET	Α	734	30.902	5.510	22.077	1.00	23.31
55	481	0	MET	Α	734	30.732	5.247	20.884	1.00	23.35
	482	СВ	MET	Α	734	33.003	6.596	22.906	1.00	27.26
Į	483	CG	MET	Α	734	33.749	5.604	22.047	1.00	31.61

						TAE	3LE	8 (0	contir	nued)	N CO	MPLEX	WITH	DHT				
Г		T	HREE-DI	MENS	ONAL	coo	RDI	NAT	ES 0	FAHI	T	Z	occ	; T	В	ATO	MC	
+	ATOM		TYPE	RESI	DUE	#		×		' -	┼	5,121	22.8		1.00	39.	54	
			SD	ME	T	Α	7	34	35.	293		3.401	23.3		1.00	37.	92	
}	484		CE	ME	T	Α	17	734		884	<u> </u>	4.671	23.0		1.00	21	.64	
}	485		N	AL	A	Α		735	<u> </u>	.571		3.390	22.7		1.00	20	.44	
	486		CA	Al	A	Α		735		.939		3.570	22.0		1.00	19	.23	
10	488	 	С	Al	A	Α		735	┼	.644		2.905	21.		1.00	19	.59	
	489	┼	0	A	LA	Α		735	4-	3.398		2.683		110	1.00	20	0.71	
	490	┼	СВ	A	LA	Α		735	4-	9.650		4.460		501	1.00	1	8.69	
15	491		N	V	/AL	A		736	1	7.799		4.734		.877	1.00	1	7.76	i
		+	CA	1	/AL	A		736	4-	6.516		5.133		.389	1.00	1	8.16	
	492			+ ,	/AL	1		736		6.673			+	.512	1.00	5 1	7.42	
	493		0	+	VAL	7	4	73	6 2	5.962		4.614	+	2.760	1.0	0	18.30	
20	494		CB	+	VAL	7	Α	73	6 2	25.742 		5.771		2.011	1.0	0	17.05	1
	495		 CG1		VAL	1	A	73	6 2	25.373		6.998	+-	3,420	1.0	0	17.25	1
	496	-+-	CG2	+-	VAL		Α	73	36	24.544 		5.118		0.096	1.0	00	17.60	1
25	497		N	+-	ILE		Α	73	37	27.658	3	5.98		8.724	1.0	00	16.31	7
	498	-+-	CA	+-	ILE		Α	7:	37	27.914	4	6.42		7.904	+-	00	16.74	_
	499				ILE		Α	7	37	28.35	2	5.21	<u> </u>	16.812	+-	00	16.09	_
	500	-+	-		ILE		Α	7	37	27.85	3	4.98		18.683		.00	14.71	_
30	50				ILE	_	Α	7	'37	29.04	6	7.49		19.32	+-	.00	15.11	_
	50		CG1	-+-	ILE	_	Α	7	737	28.60)2	8.8		17.27		.00	14.05	_
	50		CG2		ILE	_	A	\top	737	29.47	76	7.7		19.61	-	.00	12.32	_
35	50	_+	CD1		ILE		Α	\top	737	29.7	69 	9.8		18.46	-+	1.00	18.15	 ;
		05	N	-+	GLN		Α	T	738	29.2	81 	4.4	+	17.84		1.00	17.97	7
	ļ	06	CA		GLN		A		738	29.8	50		260	17.5	-+	1.00	16.70	 3
		07			GLN	1	A		738	28.9	904		111	16.7	-+	1.00	16.4	_ 7
40		808			GLN	٧	1	1	738	29.2	249		226	18.7		1.00	20.5	3
	ļ	509	СВ		GLI	<u> </u>	17	A	738	30.9	960		715	18.5		1.00	23.8	8
	 	510	CG		GL		1	A	738		278		394	19.4		1.00	1-00	- 39
45	 	511	CD		GL	N	1	A	738	33.	.306		.726	20.		1.00		 30
	-	512	OE1		GL	.N	+	Α	738	3 33	.027		.390		887	1.00		_ 53
		513	NE2		GL	N	+	Α	73	в 34	.483		2.475	 		1.0	-+	3
		514	NE		TY		+	Α	73	9 27	.792		2.029		260 .995	1.0	-+	
50	-	515	CA			/R	\top	Α	73	9 26	3.819		0.983	 		1.0	- 	_
	-	516				YR	+	Α	73	39 25	5.721		1.527		.100	1.0		_
		517	0			YR	+	Α	73	39 2	5.138		0.793	+	.295	1.0		_
55	_	518			—	YR	_	Α	7:	39 2	6.174		0.448	-	.285	 	00 15	_
		519	- C	<u></u> -		YR	-	A	7	39 2	7.130		-0.115).313	1.		_

S21			THREE-D	IMENSIONAL	L COO	RDINA	TES OF AR I	N COMPLE	X WITH DI	HT.	
S21 CD1 TYR		АТОМ	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
523 CE1 TYR A 739 29.151 1.317 20.915 1.00 16.17 524 CE2 TYR A 739 27.817 -0.321 22.624 1.00 17.09 525 CZ TYR A 739 27.817 -0.321 22.624 1.00 17.09 526 OH TYR A 739 28.921 -1.040 22.253 1.00 16.83 526 OH TYR A 739 29.787 -1.435 23.256 1.00 18.24 527 N SER A 740 25.453 2.822 17.195 1.00 15.61 528 CA SER A 740 24.384 3.404 16.403 1.00 15.61 529 C SER A 740 24.384 3.404 16.403 1.00 15.61 530 O SER A 740 23.778 4.451 14.376 1.00 15.75 531 CB SER A 740 23.778 4.451 17.682 1.00 15.49 532 OG SER A 740 24.512 5.421 17.682 1.00 18.39 533 N TRP A 741 25.948 4.188 14.659 1.00 14.33 533 N TRP A 741 25.948 4.188 14.659 1.00 14.33 534 CA TRP A 741 25.471 4.246 12.166 1.00 15.12 535 C TRP A 741 25.471 4.246 12.166 1.00 15.12 536 O TRP A 741 25.470 4.995 11.376 1.00 15.35 537 CB TRP A 741 28.465 3.720 13.000 1.00 17.05 539 CD1 TRP A 741 28.465 3.720 13.000 1.00 17.05 539 CD1 TRP A 741 28.995 3.016 14.020 1.00 17.05 540 CD2 TRP A 741 29.592 1.878 13.551 1.00 19.60 540 CD2 TRP A 741 29.592 1.878 13.551 1.00 19.60 541 NE1 TRP A 741 29.592 1.878 13.551 1.00 19.60 542 CE2 TRP A 741 29.647 1.834 12.190 1.00 18.88 543 CE3 TRP A 741 29.647 1.834 12.190 1.00 18.88 543 CE3 TRP A 741 29.592 1.878 13.551 1.00 19.60 544 CZ2 TRP A 741 28.949 2.240 9.509 1.00 17.91 546 CH2 TRP A 741 28.949 2.240 9.509 1.00 17.91 546 CH2 TRP A 741 28.949 2.240 9.509 1.00 18.35 547 N MET A 742 25.391 2.920 12.034 1.00 18.56 548 CA MET A 742 25.391 2.920 12.034 1.00 18.35 549 C MET A 742 25.896 3.153 9.610 1.00 13.31 551 CB MET A 742 28.866 3.153 9.610 1.00 13.31	5	521	CD1	TYR	Α	739	28.251	-0.852	19.950	1.00	15.41
10		522	CD2	TYR	Α	739	26.925	0.131	21.656	1.00	16.49
S25		523	CE1	TYR	Α	739	29.151	-1.317	20.915	1.00	16.17
S26	10	524	CE2	TYR	Α	739	27.817	-0.321	22.624	1.00	17.09
527		525	CZ	TYR	Α	739	28.921	-1.040	22.253	1.00	16.83
528		526	ОН	TYR	Α	739	29.787	-1.435	23.256	1.00	18.24
528		527	N	SER	Α	740	25.453	2.822	17.195	1.00	15.61
530 O SER A 740 23.778 4.451 14.376 1.00 15.75 531 CB SER A 740 23.619 4.403 17.252 1.00 15.49 532 OG SER A 740 24.512 5.421 17.682 1.00 18.39 533 N TRP A 741 25.948 4.188 14.659 1.00 14.33 534 CA TRP A 741 25.948 4.188 14.659 1.00 14.83 535 C TRP A 741 25.471 4.246 12.166 1.00 15.12 536 O TRP A 741 24.902 4.995 11.376 1.00 15.56 537 CB TRP A 741 27.706 4.997 13.113 1.00 15.35 538 CG TRP A 741 28.465 3.720 13.000 1.00 17.05 539 CD1 TRP A 741 28.465 3.720 13.000 1.00 17.05 539 CD1 TRP A 741 28.995 3.016 14.020 1.00 17.05 540 CD2 TRP A 741 28.765 2.987 11.800 1.00 17.91 541 NE1 TRP A 741 29.592 1.878 13.551 1.00 19.60 542 CE2 TRP A 741 29.467 1.834 12.190 1.00 18.98 543 CE3 TRP A 741 29.915 0.876 11.266 1.00 18.79 544 CZ2 TRP A 741 29.915 0.876 11.266 1.00 18.79 545 CZ3 TRP A 741 29.946 1.098 9.934 1.00 18.55 547 N MET A 742 25.391 2.920 12.034 1.00 14.55 548 CA MET A 742 25.391 2.920 12.034 1.00 14.55 549 C MET A 742 23.290 2.763 10.699 1.00 12.47 550 O MET A 742 22.886 3.153 9.610 1.00 13.31 551 CB MET A 742 24.219 0.185 9.597 1.00 12.17	15	528	CA	SER	Α	740	24.384	3.404	16.403	1.00	15.61
SER		529	С	SER	Α	740	24.697	4.054	15.060	1.00	14.87
532 OG SER A 740 24.512 5.421 17.682 1.00 18.39 533 N TRP A 741 25.948 4.188 14.659 1.00 14.33 534 CA TRP A 741 26.202 4.835 13.382 1.00 14.83 535 C TRP A 741 25.471 4.246 12.166 1.00 15.12 536 O TRP A 741 24.902 4.995 11.376 1.00 15.56 537 CB TRP A 741 27.706 4.997 13.113 1.00 15.35 538 CG TRP A 741 28.465 3.720 13.000 1.00 17.05 539 CD1 TRP A 741 28.995 3.016 14.020 1.00 17.12 540 CD2 TRP A 741 28.765 2.987 11.800 1.00 17.91 541 NE1 TRP A 741 29.592 1.878 13.551 1.00 19.60 542 CE2 TRP A 741 29.467 1.834 12.190 1.00 18.98 543 CE3 TRP A 741 28.505 3.193 10.434 1.00 18.66 544 CZ2 TRP A 741 29.915 0.876 11.266 1.00 18.79 546 CH2 TRP A 741 29.644 1.098 9.934 1.00 18.35 547 N MET A 742 25.391 2.920 12.034 1.00 12.90 549 C MET A 742 23.290 2.763 10.699 1.00 12.47 550 O MET A 742 23.290 2.763 10.669 1.00 13.31 551 CB MET A 742 24.785 0.815 10.866 1.00 13.16		530	0	SER	Α	740	23.778	4.451	14.376	1.00	15.75
533 N TRP A 741 25.948 4.188 14.659 1.00 14.33 534 CA TRP A 741 26.202 4.835 13.382 1.00 14.83 535 C TRP A 741 25.471 4.246 12.166 1.00 15.12 536 O TRP A 741 24.902 4.995 11.376 1.00 15.56 537 CB TRP A 741 27.706 4.997 13.113 1.00 15.35 538 CG TRP A 741 28.465 3.720 13.000 1.00 17.05 539 CD1 TRP A 741 28.995 3.016 14.020 1.00 17.12 540 CD2 TRP A 741 28.995 3.016 14.020 1.00 17.12 540 CD2 TRP A 741 29.592 1.878 13.551 1.00 19.60 542 CE2 TRP A 741 29.467 1.834 12.190 1.00 18.98 543 CE3 TRP A 741 29.915 0.876 11.266 1.00 18.79 544 CZ2 TRP A 741 29.915 0.876 11.266 1.00 18.79 545 CZ3 TRP A 741 29.915 0.876 11.266 1.00 18.79 546 CH2 TRP A 741 29.944 1.098 9.934 1.00 18.35 547 N MET A 742 25.391 2.920 12.034 1.00 14.55 548 CA MET A 742 25.391 2.920 12.034 1.00 12.90 549 C MET A 742 23.290 2.763 10.699 1.00 12.47 550 O MET A 742 23.290 2.763 10.699 1.00 13.31 551 CB MET A 742 24.785 0.815 10.866 1.00 13.16	20	531	СВ	SER	Α	740	23.619	4.403	17.252	1.00	15.49
534 CA TRP A 741 26.202 4.835 13.382 1.00 14.83 535 C TRP A 741 25.471 4.246 12.166 1.00 15.12 536 O TRP A 741 24.902 4.995 11.376 1.00 15.56 537 CB TRP A 741 27.706 4.997 13.113 1.00 15.35 538 CG TRP A 741 28.465 3.720 13.000 1.00 17.05 539 CD1 TRP A 741 28.995 3.016 14.020 1.00 17.12 540 CD2 TRP A 741 28.995 3.016 14.020 1.00 17.12 540 CD2 TRP A 741 29.592 1.878 13.551 1.00 19.60 541 NE1 TRP A 741 29.467 1.834 12.190 1.00 18.98 543 CE3 TRP A 741 29.467 1.834 12.190 1.00 18.98 544 CZ2 TRP A 741 29.915 0.876 11.266 1.00 18.79 546 CH2 TRP A 741 29.915 0.876 11.266 1.00 18.79 546 CH2 TRP A 741 29.944 1.098 9.934 1.00 18.35 547 N MET A 742 25.391 2.920 12.034 1.00 14.55 548 CA MET A 742 25.391 2.920 12.034 1.00 12.47 550 O MET A 742 23.290 2.763 10.699 1.00 12.47 550 CB MET A 742 22.886 3.153 9.610 1.00 13.31 551 CB MET A 742 24.785 0.815 10.866 1.00 13.16		532	OG	SER	Α	740	24.512	5.421	17.682	1.00	18.39
535 C TRP A 741 25.471 4.246 12.166 1.00 15.12 536 O TRP A 741 24.902 4.995 11.376 1.00 15.56 537 CB TRP A 741 27.706 4.997 13.113 1.00 15.35 538 CG TRP A 741 28.465 3.720 13.000 1.00 17.05 539 CD1 TRP A 741 28.995 3.016 14.020 1.00 17.91 540 CD2 TRP A 741 28.765 2.987 11.800 1.00 17.91 541 NE1 TRP A 741 29.592 1.878 13.551 1.00 19.60 542 CE2 TRP A 741 29.592 1.878 13.551 1.00 18.98 543 CE3 TRP A 741 28.505 <t< td=""><td></td><td>533</td><td>N</td><td>TRP</td><td>Α</td><td>741</td><td>25.948</td><td>4.188</td><td>14.659</td><td>1.00</td><td>14.33</td></t<>		533	N	TRP	Α	741	25.948	4.188	14.659	1.00	14.33
535 C TRP A 741 25.471 4.246 12.166 1.00 15.12 536 O TRP A 741 24.902 4.995 11.376 1.00 15.56 537 CB TRP A 741 27.706 4.997 13.113 1.00 15.35 538 CG TRP A 741 28.465 3.720 13.000 1.00 17.05 539 CD1 TRP A 741 28.995 3.016 14.020 1.00 17.12 540 CD2 TRP A 741 28.765 2.987 11.800 1.00 17.91 541 NE1 TRP A 741 29.592 1.878 13.551 1.00 19.60 542 CE2 TRP A 741 29.467 1.834 12.190 1.00 18.98 543 CE3 TRP A 741 29.915 0.876 11.266 1.00 18.79 544 CZ2 TRP A 741 29.915 0.876 11.266 1.00 18.79 546 CH2 TRP A 741 29.644 1.098 9.934 1.00 18.35 547 N MET A 742 25.391 2.920 12.034 1.00 14.55 548 CA MET A 742 24.723 2.339 10.870 1.00 12.90 549 C MET A 742 23.290 2.763 10.699 1.00 12.47 550 O MET A 742 22.886 3.153 9.610 1.00 13.31 551 CB MET A 742 24.785 0.815 10.866 1.00 13.16	25	534	CA	TRP	Α	741	26.202	4.835	13.382	1.00	14.83
537 CB TRP A 741 27.706 4.997 13.113 1.00 15.35 538 CG TRP A 741 28.465 3.720 13.000 1.00 17.05 539 CD1 TRP A 741 28.995 3.016 14.020 1.00 17.12 540 CD2 TRP A 741 28.765 2.987 11.800 1.00 17.91 541 NE1 TRP A 741 29.592 1.878 13.551 1.00 19.60 542 CE2 TRP A 741 29.467 1.834 12.190 1.00 18.98 543 CE3 TRP A 741 29.467 1.834 12.190 1.00 18.66 544 CZ2 TRP A 741 29.915 0.876 11.266 1.00 18.79 545 CZ3 TRP A 741 29.915 0.876 11.266 1.00 18.79 545 CZ3 TRP A 741 29.644 1.098 9.934 1.00 18.35 546 CH2 TRP A 741 29.644 1.098 9.934 1.00 18.35 547 N MET A 742 25.391 2.920 12.034 1.00 14.55 548 CA MET A 742 24.723 2.339 10.870 1.00 12.90 549 C MET A 742 23.290 2.763 10.699 1.00 12.47 550 O MET A 742 22.886 3.153 9.610 1.00 13.31 551 CB MET A 742 24.785 0.815 10.866 1.00 13.16 552 CG MET A 742 24.219 0.185 9.597 1.00 12.17	25	535	C	TRP	Α	741	25.471	4.246	12.166	1.00	15.12
30 538 CG TRP A 741 28.465 3.720 13.000 1.00 17.05 539 CD1 TRP A 741 28.995 3.016 14.020 1.00 17.12 540 CD2 TRP A 741 28.765 2.987 11.800 1.00 17.91 541 NE1 TRP A 741 29.592 1.878 13.551 1.00 19.60 542 CE2 TRP A 741 29.592 1.878 13.551 1.00 19.60 542 CE2 TRP A 741 29.592 1.878 13.551 1.00 19.60 543 CE3 TRP A 741 29.592 1.834 12.190 1.00 18.98 544 CZ2 TRP A 741 29.915 0.876 11.266 1.00 18.79 545 CZ3 TRP A 741 <		536	0	TRP	Α	741	24.902	4.995	11.376	1.00	15.56
539 CD1 TRP A 741 28.995 3.016 14.020 1.00 17.12 540 CD2 TRP A 741 28.765 2.987 11.800 1.00 17.91 541 NE1 TRP A 741 29.592 1.878 13.551 1.00 19.60 542 CE2 TRP A 741 29.467 1.834 12.190 1.00 18.98 543 CE3 TRP A 741 29.505 3.193 10.434 1.00 18.66 544 CZ2 TRP A 741 29.915 0.876 11.266 1.00 18.79 545 CZ3 TRP A 741 28.949 2.240 9.509 1.00 17.91 546 CH2 TRP A 741 29.644 1.098 9.934 1.00 18.35 547 N MET A 742 25.391 2.920 12.034 1.00 14.55 548 CA MET A 742 24.723 2.339 10.870 1.00 12.90 549 C MET A 742 23.290 2.763 10.699 1.00 12.47 550 O MET A 742 22.886 3.153 9.610 1.00 13.31 551 CB MET A 742 24.785 0.815 10.866 1.00 13.16		537	СВ	TRP	Α	741	27.706	4.997	13.113	1.00	15.35
540 CD2 TRP A 741 28.765 2.987 11.800 1.00 17.91 541 NE1 TRP A 741 29.592 1.878 13.551 1.00 19.60 542 CE2 TRP A 741 29.467 1.834 12.190 1.00 18.98 543 CE3 TRP A 741 29.467 1.834 12.190 1.00 18.98 544 CZ2 TRP A 741 29.505 3.193 10.434 1.00 18.66 544 CZ2 TRP A 741 29.915 0.876 11.266 1.00 18.79 545 CZ3 TRP A 741 29.949 2.240 9.509 1.00 17.91 546 CH2 TRP A 741 29.644 1.098 9.934 1.00 18.35 547 N MET A 742 24.723	30	538	CG	TRP	Α	741	28.465	3.720	13.000	1.00	17.05
541 NE1 TRP A 741 29.592 1.878 13.551 1.00 19.60 542 CE2 TRP A 741 29.467 1.834 12.190 1.00 18.98 543 CE3 TRP A 741 29.595 3.193 10.434 1.00 18.66 544 CZ2 TRP A 741 29.915 0.876 11.266 1.00 18.79 545 CZ3 TRP A 741 29.915 0.876 11.266 1.00 18.79 546 CH2 TRP A 741 29.949 2.240 9.509 1.00 17.91 546 CH2 TRP A 741 29.644 1.098 9.934 1.00 18.35 547 N MET A 742 25.391 2.920 12.034 1.00 14.55 548 CA MET A 742 24.723 2.339 10.699 1.00 12.47 550 O MET A </td <td></td> <td>539</td> <td>CD1</td> <td>TRP</td> <td>Α</td> <td>741</td> <td>28.995</td> <td>3.016</td> <td>14.020</td> <td>1.00</td> <td>17.12</td>		539	CD1	TRP	Α	741	28.995	3.016	14.020	1.00	17.12
542 CE2 TRP A 741 29.467 1.834 12.190 1.00 18.98 543 CE3 TRP A 741 28.505 3.193 10.434 1.00 18.66 544 CZ2 TRP A 741 29.915 0.876 11.266 1.00 18.79 40 545 CZ3 TRP A 741 29.915 0.876 11.266 1.00 18.79 546 CH2 TRP A 741 28.949 2.240 9.509 1.00 17.91 546 CH2 TRP A 741 29.644 1.098 9.934 1.00 18.35 547 N MET A 742 25.391 2.920 12.034 1.00 14.55 548 CA MET A 742 24.723 2.339 10.870 1.00 12.47 550 O MET A 742 22.		540	CD2	TRP	Α	741	28.765	2.987	11.800	1.00	17.91
542 CE2 TRP A 741 29.467 1.834 12.190 1.00 18.98 543 CE3 TRP A 741 28.505 3.193 10.434 1.00 18.66 544 CZ2 TRP A 741 29.915 0.876 11.266 1.00 18.79 545 CZ3 TRP A 741 28.949 2.240 9.509 1.00 17.91 546 CH2 TRP A 741 29.644 1.098 9.934 1.00 18.35 547 N MET A 742 25.391 2.920 12.034 1.00 14.55 548 CA MET A 742 24.723 2.339 10.870 1.00 12.90 549 C MET A 742 23.290 2.763 10.699 1.00 12.47 550 O MET A 742 22.886 3.153 9.610 1.00 13.31 551 CB MET A 742 24.785 0.815 10.866 1.00 13.16	35	541	NE1	TRP	Α	741	29.592	1.878	13.551	1.00	19.60
544 CZ2 TRP A 741 29.915 0.876 11.266 1.00 18.79 545 CZ3 TRP A 741 28.949 2.240 9.509 1.00 17.91 546 CH2 TRP A 741 29.644 1.098 9.934 1.00 18.35 547 N MET A 742 25.391 2.920 12.034 1.00 14.55 548 CA MET A 742 24.723 2.339 10.870 1.00 12.90 549 C MET A 742 23.290 2.763 10.699 1.00 12.47 550 O MET A 742 22.886 3.153 9.610 1.00 13.31 551 CB MET A 742 24.785 0.815 10.866 1.00 13.16	55	542	CE2	TRP	Α	741	29.467	1.834	12.190	1.00	18.98
40 545 CZ3 TRP A 741 28.949 2.240 9.509 1.00 17.91 546 CH2 TRP A 741 29.644 1.098 9.934 1.00 18.35 547 N MET A 742 25.391 2.920 12.034 1.00 14.55 548 CA MET A 742 24.723 2.339 10.870 1.00 12.90 549 C MET A 742 23.290 2.763 10.699 1.00 12.47 550 O MET A 742 22.886 3.153 9.610 1.00 13.31 551 CB MET A 742 24.785 0.815 10.866 1.00 13.16 50 552 CG MET A 742 24.219 0.185 9.597 1.00 12.17		543	CE3	TRP	Α	741	28.505	3.193	10.434	1.00	18.66
546 CH2 TRP A 741 29.644 1.098 9.934 1.00 18.35 547 N MET A 742 25.391 2.920 12.034 1.00 14.55 548 CA MET A 742 24.723 2.339 10.870 1.00 12.90 549 C MET A 742 23.290 2.763 10.699 1.00 12.47 550 O MET A 742 22.886 3.153 9.610 1.00 13.31 551 CB MET A 742 24.785 0.815 10.866 1.00 13.16 50 552 CG MET A 742 24.219 0.185 9.597 1.00 12.17		544	CZ2	TRP	Α	741	29.915	0.876	11.266	1.00	18.79
547 N MET A 742 25.391 2.920 12.034 1.00 14.55 548 CA MET A 742 24.723 2.339 10.870 1.00 12.90 549 C MET A 742 23.290 2.763 10.699 1.00 12.47 550 O MET A 742 22.886 3.153 9.610 1.00 13.31 551 CB MET A 742 24.785 0.815 10.866 1.00 13.16 50 552 CG MET A 742 24.219 0.185 9.597 1.00 12.17	40	545	CZ3	TRP	Α	741	28.949	2.240	9.509	1.00	17.91
548 CA MET A 742 24.723 2.339 10.870 1.00 12.90 549 C MET A 742 23.290 2.763 10.699 1.00 12.47 550 O MET A 742 22.886 3.153 9.610 1.00 13.31 551 CB MET A 742 24.785 0.815 10.866 1.00 13.16 50 552 CG MET A 742 24.219 0.185 9.597 1.00 12.17		546	CH2	TRP	Α	741	29.644	1.098	9.934	1.00	18.35
549 C MET A 742 23.290 2.763 10.699 1.00 12.47 550 O MET A 742 22.886 3.153 9.610 1.00 13.31 551 CB MET A 742 24.785 0.815 10.866 1.00 13.16 50 552 CG MET A 742 24.219 0.185 9.597 1.00 12.17		547	N	MET	Α	742	25.391	2.920	12.034	1.00	14.55
549 C MET A 742 23.290 2.763 10.699 1.00 12.47 550 O MET A 742 22.886 3.153 9.610 1.00 13.31 551 CB MET A 742 24.785 0.815 10.866 1.00 13.16 50 552 CG MET A 742 24.219 0.185 9.597 1.00 12.17	45	548	CA	MET	Α	742	24.723	2.339	10.870	1.00	12.90
551 CB MET A 742 24.785 0.815 10.866 1.00 13.16 50 552 CG MET A 742 24.219 0.185 9.597 1.00 12.17		549	С	MET	Α	742	23.290	2.763	10.699	1.00	12.47
50 552 CG MET A 742 24.219 0.185 9.597 1.00 12.17		550	0	MET	Α	742	22.886	3.153	9.610	1.00	13.31
552 55 MEL 77 7 2 2 1.215 5.155 1.55 1.217		551	СВ	MET	Α	742	24.785	0.815	10.866	1.00	13.16
553 SD MET A 742 25.353 0.336 8.263 1.00 15.00	50	552	CG	MET	Α	742	24.219	0.185	9.597	1.00	12.17
		553	SD	MET	Α	742	25.353	0.336	8.263	1.00	15.00
554 CE MET A 742 26.462 -0.994 8.639 1.00 13.52		554	CE	MET	Α	742	26.462	-0.994	8.639	1.00	13.52
555 N GLY A 743 22.497 2.656 11.748 1.00 12.12	55	555	N	GLY	Α	743	22.497	2.656	11.748	1.00	12.12
556 CA GLY A 743 21.102 3.057 11.663 1.00 11.81		556	CA	GLY	Α	743	21.102	3.057	11.663	1.00	11.81
557 C GLY A 743 20.947 4.558 11.452 1.00 12.08		557	С	GLY	Α	743	20.947	4.558	11.452	1.00	12.08

ļ		TUDEE D	IMENSIONAL			ES OF AR IN	COMPLEX	WITH DH	T	
	1=014		RESIDUE	# 1	X	Y	Z	occ	В	ATOM
5	ATOM	ATOM TYPE	GLY		743	20.022	5.009	10.768	1.00	11.88
	558	0	LEU	A	744	21.835	5.336	12.070	1.00	12.77
	559	N	LEU		744	21.817	6.797	11.972	1.00	12.22
	560	CA	LEU	A	744	22.087	7.258	10.563	1.00	12.20
10	561	С	LEU	A	744	21.424	8.173	10.080	1.00	14.22
	562	0		A	744	22.884	7.418	12.888	1.00	11.70
	563	CB	LEU		744	22.702	7.481	14.399	1.00	9.95
15	564	CG	LEU	A	744	23.967	8.075	14.954	1.00	9.77
	565	CD1	LEU	A .	744	21.516	8.341	14.799	1.00	9.16
	566	CD2	LEU	A	745	23.083	6.651	9.921	1.00	12.34
	567	N	MET	A		23.466	6.991	8.541	1.00	11.39
20	568	CA	MET	A	745	22.462	6.498	7.508	1.00	12.29
	569	С	MET	A .	745	22.402	7.155	6.495	1.00	10.62
	570	0	MET	A	745		6.427	8.191	1.00	10.75
25	571	СВ	MET	A	745	24.839	6.948	9.076	1.00	8.86
20	572	CG	MET	A	745	25.961	 	8.487	1.00	11.97
	573	SD	MET	A	745	27.509	6.429	9.717	1.00	9.84
	574	CE	MET	A .	745	28.579	 	7.793	1.00	12.05
30	575	N	VAL	A	746	21.855	5.342		1.00	11.50
	576	CA	VAL	A	746	20.874	4.733	6.934	1.00	12.13
	577	С	VAL	A	746	19.605	5.565	6.942	1.00	12.72
35	578	0	VAL	A	746	19.000	5.792	5.907	 	11.19
33	579	СВ	VAL	A	746	20.524	3.315	7.426	1.00	10.17
	580	CG1	VAL	A	746	19.245	2.852	6.811	1.00	9.64
	581	CG2	VAL	A	746	21.615	2.355	7.095	1.00	ļ
40	582	N	PHE	A	747	19.227	6.051	8.117	1.00	12.64
	583	CA	PHE	A	747	18.014	6.857	8.304	1.00	12.63
	584	С	PHE	A	747	18.137	8.241	7.621	1.00	13.26
45	585	0	PHE	A	747	17.178	8.751	7.042	1.00	13.81
45	586	СВ	PHE	A	747	17.763	7.031	9.800	1.00	11.19
	587	CG	PHE	A	747	16.411	7.542	10.126	1.00	10.00
	588	CD1	PHE	A	747	15.286	6.780	9.847	1.00	9.30
50	589	CD2	PHE	Α	747	16.253	8.798	10.700	1.00	7.79
	590	CE1	PHE	Α	747	14.008	7.260	10.136	1.00	8.30
	591	CE2	PHE	А	747	14.996	9.293	10.993	+	6.75
	592	CZ	PHE	Α	747	13.867	8.524	10.707		8.21
55	593	N	ALA	А	748	19.298	8.873	7.740		12.46
	594	CA	ALA	А	748	19.513	10.172	7.119	1.00	12.97

TABLE 8 (continued)

	THREE-0	IMENSIONA	r coo	RDINA	TES OF AR I	N COMPLE	X WITH DI	- T	
ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	A
595	С	ALA	Α	748	19.640	9.988	5.635	1.00	13
596	0	ALA	Α	748	19.226	10.850	4.882	1.00	14
597	СВ	ALA	Α	748	20.749	10.808	7.648	1.00	11
598	N	MET	Α	749	20.209	8.864	5.204	1.00	14
599	CA	MET	Α	749	20.381	8.578	3.782	1.00	14
600	С	MET	A	749	19.023	8.390	3.142	1.00	15
601	0	MET	Α	749	18.808	8.780	1.990	1.00	17
602	СВ	MET	Α	749	21.241	7.331	3.607	1.00	15
603	CG	MET	Α	749	21.622	6.945	2.199	1.00	15
604	SD	MET	Α	749	20.315	6.246	1.193	1.00	18
605	CE	MET	Α	749	20.226	4.627	1.835	1.00	18
606	N	GLY	Α	750	18.088	7.829	3.895	1.00	16
607	CA	GLY	Α	750	16.748	7.618	3.384	1.00	16
608	С	GLY	Α	750	16.057	8.956	3.225	1.00	17
609	0	GLY	Α	750	15.263	9.135	2.289	1.00	19
610	N	TRP	Α	751	16.361	9.897	4.121	1.00	17
611	CA	TRP	Α	751	15.778	11.241	4.091	1.00	17
612	С	TRP	Α	751	16.266	11.995	2.857	1.00	18
613	0	TRP	Α	751	15.457	12.558	2.124	1.00	20
614	СВ	TRP	Α	751	16.108	12.026	5.366	1.00	16
615	CG	TRP	Α	751	15.528	13.458	5.416	1.00	14
616	CD1	TRP	Α	751	16.225	14.636	5.364	1.00	13
617	CD2	TRP	Α	751	14.151	13.821	5.617	1.00	13
618	NE1	TRP	Α	751	15.375	15.705	5.538	1.00	12
619	CE2	TRP	Α	751	14.099	15.230	5.697	1.00	12
620	CE3	TRP	Α	751	12.967	13.090	5.743	1.00	14
621	CZ2	TRP	Α	751	12.907	15.926	5.899	1.00	14
622	CZ3	TRP	Α	751	11.775	13.780	5.942	1.00	14
623	CH2	TRP	Α	751	11.756	15.188	6.020	1.00	14
624	N	ARG	Α	752	17.569	11.971	2.607	1.00	19
625	CA	ARG	Α	752	18.150	12.616	1.431	1.00	19
626	С	ARG	Α	752	17.572	12.077	0.138	1.00	20
627	0	ARG	Α	752	17.392	12.815	-0.828	1.00	20
628	СВ	ARG	Α	752	19.644	12.380	1.389	1.00	18
629	CG	ARG	Α	752	20.370	12.908	2.567	1.00	18
630	CD	ARG	Α	752	21.870	12.901	2.317	1.00	17
631	NE	ARG	Α	752	22.467	11.573	2.298	1.00	14

		THREE-D	IMENSIONAL	COOF	RDINAT	ES OF AR IN	COMPLE	WITH DH	Т	
	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
5	632	CZ	ARG	Α	752	22.976	10.973	3.370	1.00	14.90
	633	NH1	ARG	A	752	22.928	11.561	4.554	1.00	14.75
	634	NH2	ARG	Α	752	23.684	9.864	3.240	1.00	13.87
10	635	N	SER	Α	753	17.391	10.761	0.083	1.00	22.00
	636	CA	SER	Α	753	16.823	10.099	-1.093	1.00	22.25
	637	С	SER	Α	753	15.434	10.635	-1.289	1.00	23.31
	638	0	SER	Α	753	14.978	10.803	-2.409	1.00	23.88
15	639	СВ	SER	Α	753	16.716	8.590	-0.879	1.00	20.25
	640	OG	SER	Α	753	17.988	8.027	-0.687	1.00	19.78
	641	N	PHE	Α	754	14.762	10.870	-0.173	1.00	24.76
20	642	CA	PHE	Α	754	13.405	11.375	-0.156	1.00	26.45
	643	С	PHE	Α	754	13.239	12.818	-0.630	1.00	27.47
	644	0	PHE	Α	754	12.543	13.100	-1.614	1.00	26.87
	645	СВ	PHE	Α	754	12.835	11.243	1.245	1.00	26.43
25	646	CG	PHE	Α	754	11.447	11.765	1.364	1.00	28.06
	647	CD1	PHE	Α	754	10.407	11.168	0.654	1.00	28.69
	648	CD2	PHE	Α	754	11.184	12.895	2.118	1.00	27.96
30	649	CE1	PHE	Α	754	9.126	11.703	0.687	1.00	29.47
	650	CE2	PHE	Α	754	9.901	13.442	2.160	1.00	28.93
	651	CZ	PHE	Α	754	8.876	12.849	1.445	1.00	29.47
25	652	N	THR	Α	755	13.823	13.732	0.125	1.00	29.01
35	653	CA	THR	Α	755	13.725	15.134	-0.190	1.00	30.83
	654	С	THR	Α	755	14.317	15.460	-1.552	1.00	32.57
	655	0	THR	Α	755	13.841	16.358	-2.234	1.00	33.24
40	656	СВ	THR	A	755	14.345	15.972	0.918	1.00	29.71
	657	OG1	THR	A	755	15.669	15.524	1.183	1.00	28.99
	658	CG2	THR	Α	755	13.553	15.796	2.164	1.00	29.63
45	659	N	ASN	Α	756	15.262	14.639	-1.991	1.00	34.71
45	660	CA	ASN	A	756	15.920	14.842	-3.273	1.00	36.48
	661	С	ASN	A	756	15.360	14.065	-4.457	1.00	37.88
	662	0	ASN	Α	756	14.684	14.628	-5.313	1.00	39.57
50	663	СВ	ASN	Α	756	17.417	14.562	-3.149	1.00	36.89
	664	CG	ASN	Α	756	18.137	15.616	-2.344	1.00	37.02
	665	OD1	ASN	A	756	17.563	16.237	-1.456	1.00	39.11
55	666	ND2	ASN	Α	756	19.392	15.844	-2.668	1.00	37.24
<i>y</i> -	667	N	VAL	A	757	15.654	12.773	-4.518	1.00	38.99
	668	CA	VAL	Α	757	15.210	11.948	-5.633	1.00	39.74

TABLE 8 (continued)

	THREE-0	IMENSIONA	L COO	RDINA	TES OF AR I	N COMPLE	X WITH DI	4T	
ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	AT
669	С	VAL	Α	757	13.835	11.308	-5.456	1.00	39.
670	0	VAL	Α	757	13.501	10.335	-6.134	1.00	40.
671	СВ	VAL	Α	757	16.274	10.869	-5.971	1.00	39.
672	CG1	VAL	Α	757	17.639	11.540	-6.170	1.00	40.
673	CG2	VAL	Α	757	16.354	9.819	-4.871	1.00	39.
674	N	ASN	Α	758	13.037	11.874	-4.559	1.00	40.
675	CA	ASN	Α	758	11.699	11.374	-4.265	1.00	41.
676	С	ASN	Α	758	11.622	9.858	-4.100	1.00	40.
677	0	ASN	Α	758	10.592	9.229	-4.404	1.00	40.
678	СВ	ASN	Α	758	10.678	11.894	-5.288	1.00	43.
679	CG	ASN	Α	758	10.257	13.331	-5.005	1.00	44.
680	OD1	ASN	Α	758	11.097	14.199	-4.764	1.00	46.
681	ND2	ASN	Α	758	8.953	13.576	-4.987	1.00	45.
682	N	SER	Α	759	12.733	9.298	-3.612	1.00	40.
683	CA	SER	Α	759	12.891	7.877	-3.326	1.00	38.
684	С	SER	Α	759	13.027	6.921	-4.532	1.00	39.
685	0	SER	Α	759	12.833	5.711	-4.382	1.00	39.
686	СВ	SER	Α	759	11.763	7.415	-2.395	1.00	37.
687	OG	SER	Α	759	11.496	8.369	-1.378	1.00	34.
688	N	ARG	Α	760	13.409	7.438	-5.704	1.00	39.
689	CA	ARG	Α	760	13.564	6.589	-6.892	1.00	38.
690	С	ARG	Α	760	14.897	5.840	-6.876	1.00	36.
691	0	ARG	Α	760	15.024	4.741	-7.426	1.00	37.
692	СВ	ARG	Α	760	13.451	7.422	-8.171	1.00	40.
693	CG	ARG	Α	760	13.598	6.577	-9.444	1.00	44.
694	CD	ARG	Α	760	13.903	7.394	-10.715	1.00	46.
695	NE	ARG	Α	760	14.534	6.544	-11.729	1.00	48.
696	CZ	ARG	Α	760	13.875	5.797	-12.614	1.00	49.
697	NH1	ARG	Α	760	12.542	5.795	-12.649	1.00	50.
698	NH2	ARG	Α	760	14.553	4.969	-13.398	1.00	49.
699	N	MET	Α	761	15.902	6.466	-6.275	1.00	34.
700	CA	MET	Α	761	17.238	5.890	-6.159	1.00	32.2
701	С	MET	Α	761	17.738	6.242	-4.751	1.00	29.
702	0	MET	Α	761	17.144	7.080	-4.075	1.00	28.
703	СВ	MET	Α	761	18.171	6.510	-7.194	1.00	33.
704	CG	MET	Α	761	17.588	6.682	-8.571	1.00	36.
705	SD	MET	Α	761	18.859	7.115	-9.788	1.00	40.3

TABLE 8 (continued)

		THREE-D	IMENSIONAL	COO	RDINAT	ES OF AR II	OMPLE	X WITH DH	IT	
	MOTA	ATOM TYPE	RESIDUE	#	х	Υ	Z	occ	В	ATOM
5	706	CE	MET	Α	761	18.737	8.904	-9.809	1.00	38.10
	707	N	LEU	Α	762	18.837	5.635	-4.319	1.00	26.78
	708	CA	LEU	Α	762	19.382	5.905	-2.992	1.00	24.13
10	709	С	LEU	Α	762	20.458	6.968	-3.040	1.00	23.01
	710	0	LEU	Α	762	21.537	6.726	-3.548	1.00	22.65
	711	СВ	LEU	Α	762	19.956	4.637	-2.393	1.00	24.05
	712	CG	LEU	Α	762	18.957	3.502	-2.272	1.00	23.69
15	713	CD1	LEU	Α	762	19.615	2.272	-1.632	1.00	23.99
	714	CD2	LEU	Α	762	17.788	4.011	-1.439	1.00	24.34
	715	N	TYR	Α	763	20.162	8.132	-2.475	1.00	22.03
20	716	CA	TYR	Α	763	21.066	9.273	-2.450_	1.00	20.69
	717	С	TYR	Α	763	22.068	9.173	-1.323	1.00	18.78
	718	0	TYR	Α	763	21.910	9.828	-0.304	1.00	17.73
	719	СВ	TYR	Α	763	20.250	10.540	-2.266	1.00	23.12
25	720	CG	TYR	Α	763	20.946	11.782	-2.730	1.00	25.58
	721	CD1	TYR	Α	763	20.841	12.187	-4.052	1.00	26.87
	722	CD2	TYR	Α	763	21.662	12.590	-1.841	1.00	26.77
30	723	CE1	TYR	Α	763	21.416	13.373	-4.492	1.00	28.03
	724	CE2	TYR	Α	763	22.247	13.789	-2.272	1.00	28.35
	725	CZ	TYR	Α	763	22.107	14.172	-3.604	1.00	28.85
25	726	ОН	TYR	Α	763	22.595	15.379	-4.047	1.00	30.59
35	727	N	PHE	Α	764	23.128	8.401	-1.538	1.00	17.33
	728	CA	PHE	Α	764	24.152	8.191	-0.533	1.00	16.94
	729	С	PHE	Α	764	24.964	9.441	-0.375	1.00	17.39
40	730	0	PHE	Α	764	25.379	9.797	0.734	1.00	17.28
	731	СВ	PHE	Α	764	25.086	7.078	-0.956	1.00	15.91
	732	CG	PHE	Α	764	24.505	5.724	-0.807	1.00	16.79
45	733	CD1	PHE	Α	764	24.211	4.961	-1.908	1.00	16.06
40	734	CD2	PHE	Α	764	24.267	5.205	0.450	1.00	16.83
	735	CE1	PHE	Α	764	23.691	3.692	-1.756	1.00	18.06
	736	CE2	PHE	Α	764	23.748	3.941	0.606	1.00	18.27
50	737	CZ	PHE	Α	764	23.458	3.176	-0.496	1.00	17.80
	738	N	ALA	Α	765	25.224	10.084	-1.503	1.00	17.00
	739	CA	ALA	Α	765	26.013	11.292	-1.525	1.00	16.32
<i>55</i>	740	С	ALA	Α	765	25.674	11.913	-2.841	1.00	16.66
	741	0	ALA	Α	765	25.051	11.267	-3.675	1.00	16.71
	742	СВ	ALA	Α	765	27.479	10.957	-1.460	1.00	16.17

		THREE-D	IMENSIONA	L COO	RDINA	TES OF AR I	N COMPLE	X WITH D	-T	
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	743	N	PRO	Α	766	26.016	13.196	-3.032	1.00	17.18
	744	CA	PRO	Α	766	25.703	13.846	-4.311	1.00	17.49
	745	С	PRO	Α	766	26.429	13.161	-5.481	1.00	17.65
10	746	0	PRO	Α	766	25.923	13.099	-6.598	1.00	17.73
	747	СВ	PRO	Α	766	26.183	15.277	-4.077	1.00	17.30
,	748	CG	PRO	Α	766	26.002	15.451	-2.608	1.00	17.07
15	749	CD	PRO	Α	766	26.544	14.169	-2.064	1.00	15.41
15	750	N	ASP	A	767	27.578	12.569	-5.166	1.00	18.27
	751	CA	ASP	Α	767	28.416	11.850	-6.115	1.00	18.49
	752	С	ASP	Α	767	28.330	10.317	-5.981	1.00	17.79
20	753	0	ASP	Α	767	29.191	9.594	-6.476	1.00	18.69
	754	СВ	ASP	Α	767	29.877	12.312	-5.955	1.00	18.71
	755	CG	ASP	Α	767	30.413	12.135	-4.525	1.00	19.47
25	756	OD1	ASP	Α	767	29.611	12.038	-3.569	1.00	20.31
25	757	OD2	ASP	Α	767	31.650	12.102	-4.348	1.00	19.04
	758	N	LEU	Α	768	27.334	9.820	-5.267	1.00	18.04
	759	CA	LEU	Α	768	27.164	8.379	-5.110	1.00	18.20
30	760	С	LEU	Α	768	25.690	8.129	-4.930	1.00	18.58
	761	0	LEU	Α	768	25.184	8.068	-3.812	1.00	17.79
	762	СВ	LEU	Α	768	27.955	7.809	-3.914	1.00	17.47
35	763	CG	LEU	Α	768	28.032	6.263	-3.786	1.00	16.12
	764	CD1	LEU	Α	768	28.641	5.671	-5.047	1.00	14.30
	765	CD2	LEU	Α	768	28.850	5.846	-2.563	1.00	15.17
	766	N	VAL	Α	769	24.979	8.156	-6.048	1.00	19.79
40	767	CA	VAL	Α	769	23.553	7.895	-6.035	1.00	20.42
	768	С	VAL	Α	769	23.373	6.609	-6.852	1.00	20.73
	769	0	VAL	Α	769	23.873	6.467	-7.961	1.00	22.43
45	770	СВ	VAL	Α	769	22.709	9.142	-6.447	1.00	19.95
	771	CG1	VAL	Α	769	23.571	10.190	-7.096	1.00	20.70
	772	CG2	VAL	Α	769	21.537	8.757	-7.277	1.00	19.19
	773	N	PHE	Α	770	22.871	5.604	-6.157	1.00	19.70
50	774	CA	PHE	Α	770	22.683	4.277	-6.681	1.00	19.29
	775	С	PHE	Α	770	21.425	4.134	-7.473	1.00	19.41
	776	0	PHE	Α	770	20.367	4.583	-7.054	1.00	19.74
55	777	СВ	PHE	Α	770	22.596	3.263	-5.503	1.00	18.44
	778	CG	PHE	Α	770	23.930	2.757	-4.996	1.00	16.41
	779	CD1	PHE	Α	770	25.079	3.546	-5.053	1.00	14.52

TABLE 8 (continued)

				TAE	SLE 8	(co	ntini	uea)	CON	API FX	WITH D	HT			
Γ		THREE-D	IMENSIONAL		RDIN	JATE:	S OF	AHIN	Z	,	occ	E	3	ATO	И
1	MOTA	ATOM TYPE	RESIDUE	#	×			7		468	-4.459	1.	00	14.96	5
-	780	CD2	PHE	A	77	-	24.0 26.2			070	-4.588	1.	.00	13.39	
	781	CE1	PHE	A	77	-	25.2			.979	-3.983	1	.00	13.9	
	782	CE2	PHE	A	-	-+	26.3			.786	-4.050	1	.00	13.9	6
 	783	CZ	PHE	A		70	21.5			.474	-8.611	1	.00	20.3	3
	784	N	ASN			71		363		3,157	-9.410) 1	.00	20.2	3
	785	CA	ASN	A	-	71		278	<u> </u>	.636	-9.292	2 1	1.00	21.0)1
	786	С	ASN	A		71		129	↓	1.013	-8.64	В	1.00	20.	52
T	787	0	ASN	A		771		.524	 	3.593	-10.86	4	1.00	19.	33
T	788	СВ	ASN	A		771		.883	4	3.304	-11.40	3	1.00	18.	89
t	789	CG	ASN	A		771	 	.574		2.408	-10.94	2	1.00	19.	51
Ī	790	OD1	ASN	A	-+-	771	<u> </u>	2.289	+-	4.069	-12.38	32	1.00	19.	02
1	791	ND2	ASN		-+	771 	 	9.258	+-	1.043	-9.89	8	1.00	22	.23
	792	N	GLU		-+	772	1-	9.056	+	-0.393	-9.8	41	1.00	22	.51
	793	CA	GLU		+	772 772	┼—	0.282	+-	-1.102	-10.3	03	1.00	22	.96
	794	С	GLU		<u> </u>	772	+-	0.631	+-	-2.148	-9.7	85	1.00	23	3.89
	795	0	GLU		<u> </u>	772	+-	7.888	+	-0.799	-10.7	11	1.00	23	3.17
	796	СВ	GLU		A	772	+-	6.562	+	-0.455	-10.0	99	1.00	2.	4.81
	797	CG	GLU		<u> </u>	772	+	15.761	+	-1.672	-9.7	724	1.00	2	5.41
	798	CD	GLU		<u>A</u>	772		14.624	十	-1.488	-9.	252	1.00) 2	5.33
	799	OE1	GLU		A	772		16.265	\dashv	-2.803	-9.	913	1.00) 2	6.23
	800	OE2	GLU	\dashv	<u>A</u>	77:	-	20.961	\dashv	-0.53	-11.	276	1.00) 2	2.51
	80	1 N	TYR	-+	A	77	+	22.158	-	-1.16	4 -11.	748	1.0	0 2	22.55
	80	2 CA	TYR		A A	77		23.254	一十	-1.16	7 -10	.680	1.0	0 /	23.17
	80	3 C	TYP			77	-+	23.969	-+	-2.17	0 -10	.523	1.0	0	24.08
	80	0	TYF	+		77	-+	22.640		-0.49	2 -13	.018	1.0	0	22.84
	80)5 CB	TYF	+			73	23.825		-1.19	11 -13	3.593	1.0	00	22.80
	80	o6 CG	TYI		- <u>A</u>		73	23.680)	-2.38	34 -14	1.304	1.0	00	23.02
	8	07 CD1		+			73	25.09		-0.6	71 -1:	3.418	1.1	00	22.59
	8	08 CD2					73	24.79	 1	-3.0	41 -1	4.837	7 1.	00	23.77
	8	09 CE1			A		73	26.19		-1.3	09 -1	3.93	8 1.	00	24.43
	8	10 CE2			A		773	26.04		-2.4	91 -1	4.64	3 1.	.00	24.22
)	8	311 CZ	——— —		A		773	27.17		-3.0	94 -1	5.15	5 1	.00	25.98
	- {	312 OF			A		774	23.43	32	-0.0)44	-9.98	2 1	.00	22.8
		B13 N		RG	A		774	24.42		0.0)47	-8.92	2 1	.00	21.7
5		814 CA	`	₹G 	A		774	+		-0.	796	-7.74	13 1	.00	21.3
<i>.</i>		815 C		RG 	-		774	+		-1.	386	-7.0	52	.00	20.2
		816 C) A	RG 		`									

		THREE-D	IMENSIONAL	L COO	RDINA	TES OF AR I	N COMPLE	X WITH DI	1 T	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	817	СВ	ARG	Α	774	24.623	1.487	-8.494	1.00	22.23
	818	CG	ARG	Α	774	26.026	1.952	-8.735	1.00	22.58
	819	CD	ARG	Α	774	26.073	3.066	-9.756	1.00	23.92
10 .	820	NE	ARG	Α	774	26.048	4.383	-9.146	1.00	24.69
	821	CZ	ARG	Α	774	26.961	5.328	-9.365	1.00	25.97
	822	NH1	ARG	Α	774	27.982	5.111	-10.171	1.00	25.01
	823	NH2	ARG	Α	774	26.837	6.509	-8.783	1.00	26.70
15	824	N	MET	A	775	22.669	-0.854	-7.512	1.00	21.93
	825	CA	MET	Α	775	22.136	-1.681	-6.439	1.00	23.85
	826	С	MET	Α	775	22.550	-3.136	-6.666	1.00	25.38
20	827	0	MET	Α	775	22.897	-3.832	-5.733	1.00	25.75
	828	СВ	MET	A	775	20.614	-1.582	-6.380	1.00	23.42
	829	CG	MET	Α	775	20.121	-0.241	-5.955	1.00	23.46
25	830	SD	MET	A	775	18.333	-0.199	-5.865	1.00	26.50
25	831	CE	MET	Α	775	17.909	1.086	-7.064	1.00	27.26
	832	N	HIS	Α	776	22.507	-3.593	-7.912	1.00	27.39
	833	CA	HIS	A	776	22.891	-4.954	-8.262	1.00	28.41
30	834	С	HIS	A	776	24.403	-5.065	-8.178	1.00	29.55
	835	0	HIS	A	776	24.923	-5.865	-7.414	1.00	30.12
	836	СВ	HIS	A	776	22.418	-5.302	-9.684	1.00	29.01
35	837	CG	HIS	A	776	22.639	-6.738	-10.067	1.00	30.57
	838	ND1	HIS	A	776	23.764	-7.168	-10.739	1.00	30.81
	839	CD2	HIS	A	776	21.877	-7.843	-9.864	1.00	30.73
	840	CE1	HIS	Α	776	23.685	-8.475	-10.932	1.00	29.87
40	841	NE2	HIS	Α	776	22.551	-8.907	-10.411	1.00	29.53
	842	N	LYS	Α	777	25.109	-4.283	-8.989	1.00	31.13
	843	CA	LYS	Α	777	26.570	-4.290	-8.980	1.00	32.73
45	844	С	LYS	Α	777	27.032	-3.655	-7.660	1.00	34.07
	845	0	LYS	Α	777	27.382	-2.478	-7.611	1.00	36.43
	846	СВ	LYS	Α	777	27.130	-3.481	-10.161	1.00	31.29
	847	CG	LYS	Α	777	26.678	-3.948	-11.525	1.00	30.55
50	848	CD	LYS	Α	777	27.443	-5.163	-12.003	1.00	29.83
	849	CE	LYS	Α	777	28.928	-4.856	-12.116	1.00	30.35
	850	NZ	LYS	Α	777	29.631	-5.860	-12.983	1.00	30.53
55	851	N	SER	Α	778	26.995	-4.437	-6.596	1.00	33.74
	852	CA	SER	Α	778	27.387	-4.013	-5.250	1.00	33.75
	853	С	SER	Α	778	27.065	-5.204	-4.366	1.00	32.95

TABLE 8 (continued)

		THREE-D	IMENSIONAL	COO	RDINAT	ES OF AR IN	COMPLEX	(WITH DH	Т	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	854	0	SER	Α	778	27.447	-5.260	-3.194	1.00	31.80
	855	СВ	SER	Α	778	26.593	-2.789	-4.769	1.00	33.69
	856	OG	SER	Α	778	25.254	-3.122	-4.452	1.00	33.41
10	857	N	ARG	Α	779	26.344	-6.149	-4.974	1.00	32.09
	858	CA	ARG	Α	779	25.926	-7.386	-4.347	1.00	31.15
	859	С	ARG	Α	779	25.128	-7.063	-3.084	1.00	30.75
	860	0	ARG	Α	779	25.027	-7.880	-2.163	1.00	31.03
15	861	СВ	ARG	Α	779	27.161	-8.256	-4.071	1.00	30.74
	862	CG	ARG	Α	779	28.065	-8.415	-5.299	1.00	28.19
	863	CD	ARG	Α	779	29.338	-9.182	-4.997	1.00	26.90
20	864	NE	ARG	Α	779	30.284	-9.129	-6.117	1.00	26.55
	865	CZ	ARG	Α	779	31.583	-9.401	-6.014	1.00	26.64
	866	NH1	ARG	Α	779	32.091	-9.753	-4.846	1.00	27.87
	867	NH2	ARG	Α	779	32.398	-9.234	-7.050	1.00	26.64
25	868	N	MET	Α	780	24.521	-5.875	-3.097	1.00	29.82
	869	CA	MET	Α	780	23.721	-5.381	-1.990	1.00	29.36
	870	С	MET	Α	780	22.262	-5.165	-2.331	1.00	29.21
30	871	0	MET	Α	780	21.542	-4.505	-1.566	1.00	29.43
	872	СВ	MET	Α	780	24.295	-4.068	-1.473	1.00	30.17
	873	CG	MET	Α	780	25.194	-4.191	-0.277	1.00	30.12
	874	SD	MET	Α	780	25.835	-2.592	0.168	1.00	31.24
35	875	CE	MET	Α	780	24.525	-1.995	1.114	1.00	31.13
	876	N	TYR	Α	781	21.831	-5.638	-3.497	1.00	28.58
	877	CA	TYR	Α	781	20.433	-5.498	-3.897	1.00	28.82
40	878	С	TYR	Α	781	19.701	-6.393	-2.929	1.00	30.06
	879	0	TYR	Α	781	19.984	-7.589	-2.856	1.00	32.08
	880	СВ	TYR	A	781	20.229	-5.985	-5.338	1.00	27.73
45	881	CG	TYR	A	781	18.896	-5.604	-5.964	1.00	26.05
45	882	CD1	TYR	A	781	18.847	-4.861	-7.140	1.00	25.95
	883	CD2	TYR	Α	781	17.686	-5.984	-5.382	1.00	25.08
	884	CE1	TYR	Α	781	17.624	-4.510	-7.718	1.00	25.58
50	885	CE2	TYR	Α	781	16.471	-5.643	-5.955	1.00	24.57
	886	CZ	TYR	Α	781	16.446	-4.904	-7.115	1.00	24.77
	887	ОН	TYR	Α	781	15.238	-4.572	-7.668	1.00	24.60
55	888	N	SER	Α	782	18.730	-5.821	-2.235	1.00	30.74
55	889	CA	SER	Α	782	17.935	-6.500	-1.198	1.00	31.41
	890	С	SER	A	782	18.027	-5.483	-0.070	1.00	30.50

TABLE 8 (continued)

	THREE-D	IMENSIONA	L COO	RDINA	TES OF AR I	N COMPLE	X WITH DI	- T	
ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATO
891	0	SER	Α	782	17.044	-4.807	0.230	1.00	30.
892	СВ	SER	Α	782	18.551	-7.836	-0.726	1.00	32.8
893	OG	SER	Α	782	17.785	-8.438	0.308	1.00	35.9
894	N	GLN	Α	783	19.242	-5.287	0.459	1.00	29.
895	CA	GLN	Α	783	19.455	-4.314	1.522	1.00	28.
896	С	GLN	Α	783	19.089	-2.963	0.935	1.00	26.
897	0	GLN	Α	783	18.342	-2.211	1.544	1.00	26.
898	СВ	GLN	Α	783	20.900	-4.309	2.020	1.00	28.
899	CG	GLN	Α	783	21.327	-5.532	2.805	1.00	29.
900	CD	GLN	Α	783	21.790	-6.634	1.900	1.00	32.0
901	OE1	GLN	Α	783	21.486	-6.621	0.714	1.00	33.
902	NE2	GLN	Α	783	22.547	-7.587	2.436	1.00	32.
903	N	CYS	Α	784	19.538	-2.698	-0.290	1.00	25.
904	CA	CYS	Α	784	19.212	-1.439	-0.956	1.00	24.
905	С	CYS	Α	784	17.698	-1.290	-1.146	1.00	25.
906	0	CYS	Α	784	17.155	-0.183	-1.044	1.00	25.
907	СВ	CYS	Α	784	19.951	-1.312	-2.294	1.00	22.
908	SG	CYS	Α	784	21.746	-0.989	-2.120	1.00	18.
909	N	VAL	Α	785	17.003	-2.406	-1.360	1.00	25.
910	CA	VAL	Α	785	15.538	-2.399	-1.547	1.00	25.0
911	С	VAL	A	785	14.864	-1.979	-0.257	1.00	23.
912	0	VAL	Α	785	13.881	-1.259	-0.260	1.00	24.
913	СВ	VAL	Α	785	14.987	-3.826	-1.903	1.00	25.
914	CG1	VAL	Α	785	13.457	-3.901	-1.710	1.00	26.
915	CG2	VAL	Α	785	15.349	-4.195	-3.324	1.00	26.
916	N	ARG	Α	786	15.402	-2.455	0.853	1.00	25.0
917	CA	ARG	Α	786	14.855	-2.158	2.165	1.00	25.
918	С	ARG	Α	786	15.083	-0.679	2.520	1.00	24.
919	0	ARG	Α	786	14.180	-0.001	3.030	1.00	25.
920	СВ	ARG	Α	786	15.468	-3.114	3.198	1.00	26.
921	CG	ARG	A	786	15.392	-4.591	2.748	1.00	28.
922	CD	ARG	Α	786	15.314	-5.583	3.900	1.00	29.
923	NE	ARG	Α	786	14.269	-5.206	4.851	1.00	32.
924	CZ	ARG	Α	786	14.292	-5.475	6.157	1.00	32.
925	NH1	ARG	Α	786	15.301	-6.153	6.701	1.00	32.0
926	NH2	ARG	Α	786	13.326	-5.001	6.932	1.00	33.3
927	N	MET	Α	787	16.246	-0.146	2.160	1.00	23.5

TABLE 8 (continued)

		THREE-D	DIMENSIONA	L COC	PRDINA	TES OF AR	IN COMPLE	X WITH D	HT	
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	928	CA	MET	Α	787	16.548	1.252	2.463	1.00	22.11
	929	С	MET	Α	787	15.736	2.173	1.588	1.00	23.39
	930	0	MET	Α	787	15.387	3.281	1.997	1.00	24.11
10	931	СВ	MET	Α	787	18.018	1.528	2.261	1.00	20.46
	932	CG	MET	Α	787	18.883	0.925	3.314	1.00	17.04
	933	SD	MET	Α	787	20.578	0.861	2.788	1.00	20.46
15	934	CE	MET	Α	787	21.285	1.969	3.729	1.00	20.07
15	935	N	ARG	Α	788	15.521	1.752	0.348	1.00	24.89
	936	CA	ARG	Α	788	14.738	2.499	-0.625	1.00	26.29
	937	С	ARG	Α	788	13.312	2.475	-0.090	1.00	26.13
20	938	0	ARG	Α	788	12.596	3.473	-0.146	1.00	26.50
	939	СВ	ARG	Α	788	14.833	1.790	-1.980	1.00	28.55
	940	CG	ARG	Α	788	14.166	2.474	-3.174	1.00	32.52
25	941	CD	ARG	Α	788	14.217	1.541	-4.395	1.00	35.44
23	942	NE	ARG	Α	788	13.426	1.996	-5.540	1.00	39.11
	943	CZ	ARG	Α	788	13.899	2.177	-6.783	1.00	41.32
	944	NH1	ARG	Α	788	15.182	1.960	-7.081	1.00	41.94
30	945	NH2	ARG	Α	788	13.079	2.567	-7.754	1.00	41.48
	946	N	HIS	Α	789	12.920	1.339	0.483	1.00	26.36
	947	CA	HIS	Α	789	11.587	1.173	1.052	1.00	26.76
35	948	С	HIS	Α	789	11.369	2.133	2.231	1.00	26.08
	949	0	HIS	Α	789	10.275	2.671	2.394	1.00	25.72
	950	СВ	HIS	Α	789	11.377	-0.287	1.479	1.00	29.07
	951	CG	HIS	Α	789	9.970	-0.609	1.879	1.00	30.42
40	952	ND1	HIS	Α	789	9.538	-0.567	3.188	1.00	32.05
	953	CD2	HIS	Α	789	8.890	-0.944	1.137	1.00	31.35
	954	CE1	HIS	Α	789	8.249	-0.856	3.235	1.00	32.56
45	955	NE2	HIS	Α	789	7.831	-1.087	2.001	1.00	32.55
	956	N	LEU	Α	790	12.413	2.318	3.048	1.00	25.92
	957	CA	LEU	Α	790	12.433	3.234	4.218	1.00	25.41
	958	С	LEU	Α	790	12.218	4.654	3.720	1.00	25.47
50	959	0	LEU	Α	790	11.359	5.380	4.216	1.00	25.06
	960	СВ	LEU	Α	790	13.811	3.216	4.887	1.00	23.94
L	961	CG	LEU	Α	790	14.039	3.400	6.383	1.00	23.32
55	962	CD1	LEU	Α	790	15.444	3.930	6.570	1.00	22.41
	963	CD2	LEU	Α	790	13.047	4.324	7.014	1.00	23.17
L	964	N	SER	Α	791	13.040	5.056	2.757	1.00	25.60

		THREE-D	IMENSIONAL	L COO	RDINA	TES OF AR I	N COMPLE	X WITH DI	∤ T	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	965	CA	SER	Α	791	12.942	6.375	2.177	1.00	26.51
	966	С	SER	Α	791	11.521	6.561	1.716	1.00	26.02
	967	0	SER	Α	791	10.950	7.632	1.885	1.00	26.00
10	968	СВ	SER	Α	791	13.851	6.446	0.973	1.00	28.35
	969	OG	SER	Α	791	14.936	5.559	1.179	1.00	32.32
	970	N	GLN	Α	792	10.964	5.505	1.122	1.00	26.31
	971	CA	GLN	Α	792	9.600	5.526	0.610	1.00	26.32
15	972	С	GLN	Α	792	8.629	5.836	1.721	1.00	24.88
	973	0	GLN	Α	792	7.702	6.610	1.528	1.00	24.96
	974	СВ	GLN	Α	792	9.237	4.200	-0.112	1.00	28.65
20	975	CG	GLN	Α	792	9.700	4.109	-1.603	1.00	30.43
	976	CD	GLN	Α	792	9.421	2.749	-2.277	1.00	31.95
	977	OE1	GLN	Α	792	8.479	2.607	-3.062	1.00	33.53
25	978	NE2	GLN	4	792	10.273	1.764	-2.007	1.00	32.31
25	979	N	GLU	A	793	8.886	5.301	2.907	1.00	23.72
	980	CA	GLU	4	793	8.014	5.550	4.051	1.00	22.89
	981	С	GLU	Α	793	7.949	7.041	4.400	1.00	21.58
30	982	0	GLU	A	793	6.903	7.530	4.764	1.00	21.52
	983	СВ	GLU	A	793	8.460	4.728	5.273	1.00	23.65
	984	CG	GLU	Α	793	8.555	3.199	5.055	1.00	25.18
35	985	CD	GLU	Α	793	7.383	2.406	5.651	1.00	27.08
55	986	OE1	GLU	Α	793	6.207	2.735	5.351	1.00	25.97
	987	OE2	GLU	Α	793	7.648	1.450	6.433	1.00	28.69
	988	N	PHE	Α	794	9.042	7.784	4.274	1.00	21.26
40	989	CA	PHE	Α	794	8.999	9.208	4.598	1.00	20.65
	990	С	PHE	Α	794	7.929	9.863	3.759	1.00	22.26
	991	0	PHE	Α	794	7.387	10.906	4.138	1.00	22.19
45	992	СВ	PHE	Α	794	10.334	9.890	4.323	1.00	19.81
·	993	CG	PHE	Α	794	11.413	9.541	5.304	1.00	19.96
	994	CD1	PHE	Α	794	11.226	9.728	6.662	1.00	20.01
	995	CD2	PHE	Α	794	12.599	8.974	4.878	1.00	19.43
50	996	CE1	PHE	Α	794	12.206	9.347	7.566	1.00	19.86
	997	CE2	PHE	Α	794	13.570	8.593	5.787	1.00	18.95
	998	CZ	PHE	Α	794	13.374	8.777	7.118	1.00	19.37
55	999	N	GLY	Α	795	7.688	9.270	2.585	1.00	23.81
	1000	CA	GLY	Α	795	6.676	9.750	1.662	1.00	25.46
[1001	С	GLY	Α	795	5.309	9.232	2.037	1.00	26.19

TABLE 8 (continued)

		THREE-C	IMENSIONA	L COO	RDINA	ES OF AR I	N COMPLE	X WITH DI	-IT	
	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
5	1002	0	GLY	Α	795	4.414	10.002	2.345	1.00	27.46
	1003	N	TRP	Α	796	5.181	7.912	2.081	1.00	27.45
	1004	CA	TRP	Α	796	3.931	7.239	2.428	1.00	28.24
10	1005	С	TRP	Α	796	3.345	7.826	3.706	1.00	29.13
	1006	0	TRP	Α	796	2.132	8.026	3.801	1.00	29.87
	1007	СВ	TRP	Α	796	4.135	5.697	2.542	1.00	27.71
4.5	1008	CG	TRP	Α	796	4.478	4.998	1.187	1.00	27.50
15	1009	CD1	TRP	Α	796	4.177	5.460	-0.079	1.00	27.17
	1010	CD2	TRP	Α	796	5.208	3.763	0.985	1.00	26.97
	1011	NE1	TRP	Α	796	4.676	4.601	-1.035	1.00	27.59
20	1012	CE2	TRP	Α	796	5.312	3.556	-0.417	1.00	26.72
	1013	CE3	TRP	Α	796	5.777	2.816	1.845	1.00	25.52
	1014	CZ2	TRP	Α	796	5.967	2.448	-0.970	1.00	25.70
25	1015	CZ3	TRP	Α	796	6.427	1.714	1.290	1.00	25.51
25	1016	CH2	TRP	Α	796	6.514	1.543	-0.106	1.00	25.42
	1017	N	LEU	Α	797	4.223	8.212	4.632	1.00	29.96
	1018	CA	LEU	Α	797	3.816	8.768	5.923	1.00	29.80
30	1019	С	LEU	Α	797	3.864	10.260	5.991	1.00	30.39
	1020	0	LEU	Α	797	3.447	10.827	6.983	1.00	32.25
	1021	СВ	LEU	Α	797	4.692	8.223	7.061	1.00	28.43
35	1022	CG	LEU	Α	797	4.552	6.736	7.383	1.00	27.68
55	1023	CD1	LEU	Α	797	5.709	6.269	8.228	1.00	27.20
	1024	CD2	LEU	Α	797	3.216	6.470	8.058	1.00	26.62
	1025	N	GLN	Α	798	4.415	10.908	4.978	1.00	31.03
40	1026	CA	GLN	Α	798	4.518	12.360	5.005	1.00	30.93
	1027	С	GLN	Α	798	5.267	12.764	6.294	1.00	30.02
l	1028	0	GLN	Α	798	4.716	13.460	7.147	1.00	30.51
45	1029	СВ	GLN	Α	798	3.117	13.030	4.964	1.00	31.58
	1030	CG	GLN	Α	798	2.253	12.757	3.701	1.00	32.86
	1031	CD	GLN	Α	798	0.944	13.580	3.633	1.00	32.89
	1032	OE1	GLN	Α	798	0.342	13.933	4.648	1.00	33.16
50	1033	NE2	GLN	Α	798	0.521	13.892	2.421	1.00	33.46
	1034	N	ILE	Α	799	6.497	12.283	6.462	1.00	28.60
	1035	CA	ILE	Α	799	7.277	12.634	7.648	1.00	27.76
55	1036	С	ILE	Α	799	7.729	14.094	7.552	1.00	28.59
	1037	0	ILE	Α	799	8.181	14.552	6.496	1.00	29.81
	1038	СВ	ILE	Α	799	8.546	11.747	7.829	1.00	26.34

	<u> </u>	THREE-D	IMENSIONAL			(continued)	N COMPLE	X WITH D	-T	
	ATOM	ATOM TYPE	RESIDUE	#	X	Υ	z	occ	В	ATOM
5	1039	CG1	ILE	A	799	8.168	10.286	8.046	1.00	25.57
	1040	CG2	ILE	Α	799	9.382	12.246	9.007	1.00	25.78
	1041	CD1	ILE	A	799	7.271	10.063	9.211	1.00	25.52
10	1042	N	THR	A	800	7.610	14.790	8.678	1.00	28.71
70	1043	CA	THR	Α	800	7.967	16.197	8.874	1.00	28.68
	1044	С	THR	Α	800	9.475	16.347	9.116	1.00	28.69
	1045	0	THR	Α	800	10.069	15.510	9.796	1.00	29.15
15	1046	СВ	THR	A	800	7.202	16.718	10.142	1.00	29.24
	1047	OG1	THR	Α	800	5.839	17.003	9.815	1.00	31.49
	1048	CG2	THR	Α	800	7.824	17.925	10.746	1.00	29.69
20	1049	N	PRO	Α	801	10.116	17.407	8.565	1.00	28.18
	1050	CA	PRO	Α	801	11.555	17.600	8.780	1.00	27.74
	1051	С	PRO	Α	801	11.907	17.570	10.271	1.00	27.38
	1052	0	PRO -	Α	801	12.981	17.101	10.666	1.00	27.75
25	1053	СВ	PRO	Α	801	11.797	18.983	8.178	1.00	27.08
	1054	CG	PRO	Α	801	10.908	18.956	7.002	1.00	26.58
	1055	CD	PRO	Α	801	9.618	18.376	7.569	1.00	27.62
30	1056	N	GLN	Α	802	10.982	18.045	11.095	1.00	27.01
	1057	CA	GLN	Α	802	11.189	18.079	12.542	1.00	26.73
	1058	С	GLN	Α	802	10.968	16.715	13.219	1.00	24.81
35	1059	0	GLN	Α	802	11.599	16.415	14.222	1.00	24.41
00	1060	СВ	GLN	Α	802	10.316	19.162	13.192	1.00	28.09
	1061	CG	GLN	Α	802	10.582	20.596	12.692	1.00	29.79
	1062	CD	GLN	Α	802	9.997	20.900	11.303	1.00	30.48
40	1063	OE1	GLN	Α	802	8.948	20.381	10.918	1.00	30.36
	1064	NE2	GLN	Α	802	10.660	21.782	10.571	1.00	30.57
	1065	N	GLU	Α	803	10.064	15.904	12.669	1.00	23.52
45	1066	CA	GLU	Α	803	9.797	14.558	13.196	1.00	21.64
	1067	С	GLU	Α	803	11.067	13.784	12.923	1.00	21.04
	1068	0	GLU	Α	803	11.537	13.042	13.777	1.00	20.89
	1069	СВ	GLU	Α	803	8.632	13.897	12.459	1.00	20.29
50	1070	CG	GLU	Α	803	7.277	14.434	12.848	1.00	18.44
	1071	CD	GLU	Α	803	6.147	13.786	12.119	1.00	17.84
	1072	OE1	GLU	Α	803	6.308	13.392	10.958	1.00	18.19
55	1073	OE2	GLU	Α	803	5.065	13.680	12.704	1.00	19.88
	1074	N	PHE	Α	804	11.612	14.001	11.722	1.00	19.87
	1075	CA	PHE	Α	804	12.863	13.418	11.254	1.00	19.24

ATOM ATOM TYPE RESIDUE F X Y Z OCC B ATOM			THREE-D	IMENSIONAL	COOF	RDINAT	ES OF AR I	OMPLE	X WITH DH	Т	
10/6		ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
1078 CB	5	1076	С	PHE	Α	804	14.034	13.802	12.157	1.00	20.31
10 1079 CG		1077	0	PHE	Α	804	14.807	12.939	12.564	1.00	21.30
1080 CD1 PHE A 804 15.012 12.380 9.095 1.00 13.76 1081 CD2 PHE A 804 15.440 14.706 9.301 1.00 13.69 1082 CE1 PHE A 804 16.335 12.160 8.729 1.00 13.79 1083 CE2 PHE A 804 16.335 12.160 8.729 1.00 13.79 1083 CE2 PHE A 804 16.765 14.496 8.936 1.00 13.36 1084 CZ PHE A 804 17.214 13.217 8.647 1.00 12.84 1085 N LEU A 805 14.187 15.086 12.463 1.00 20.30 1086 CA LEU A 805 15.172 14.767 14.651 1.00 19.83 1088 O LEU A 805 15.172 14.767 14.651 1.00 19.83 1088 O LEU A 805 15.572 14.767 14.651 1.00 19.83 1098 CB LEU A 805 15.552 17.834 12.330 1.00 20.77 1089 CB LEU A 805 15.552 17.834 12.330 1.00 20.47 1091 CD1 LEU A 805 15.552 17.834 12.330 1.00 20.47 1091 CD1 LEU A 805 15.704 19.281 12.707 1.00 19.84 1092 CD2 LEU A 805 16.816 17.343 11.670 1.00 19.41 1092 CD2 LEU A 805 13.980 14.719 15.233 1.00 20.17 1094 CA CYS A 806 13.980 14.719 15.233 1.00 20.36 1099 CB CYS A 806 13.980 14.719 15.233 1.00 20.36 1097 CB CYS A 806 13.938 12.515 16.376 1.00 20.30 1097 CB CYS A 806 13.938 12.515 16.376 1.00 20.30 1097 CB CYS A 806 13.938 12.515 16.376 1.00 20.30 1097 CB CYS A 806 12.372 14.332 17.078 1.00 20.30 1097 CB CYS A 806 12.372 14.332 17.078 1.00 20.30 1099 N MET A 807 13.349 11.004 17.241 1.00 20.30 1099 N MET A 807 13.349 11.004 17.241 1.00 20.30 1099 N MET A 807 13.349 11.004 17.99 1.00 17.75 1102 O MET A 807 13.491 10.052 14.979 1.00 17.75 1102 O MET A 807 13.349 11.005 1.00 17.75 1102 O MET A 807 13.349 11.005 1.00 18.41 1103 CB MET A 807 13.947 11.006 14.979 1.00 17.75 1102 O MET A 807 13.949 11.006 1.00 18.00 17.25 1106 CE MET A 807 10.377 9.142 12.911 1.00 19.42 1106 CE MET A 807 10.377 9.142 12.911 1.00 16.70 1105 CD MET A 807 10.377 9.142 12.911 1.00 16.27 1106 CE MET A 807 10.147 10.560 11.908 1.00 17.25 1100 CLYS A 808 15.712 10.871 14.259 1.00 17.35 1100 CLYS A 808 15.712 10.871 14.259 1.00 17.35 1100 CLYS A 808 15.712 10.871 14.259 1.00 17.35 1100 CLYS A 808 15.712 10.871 14.259 1.00 17.35 1100 CLYS A 808 15.712 10.871 14.259 1.00 16.07 11105 CLYS A 808 15.712 10.871 14.259 1.00 16.07 11105 CLYS A 808 15.712 10.871 14		1078	СВ	PHE	Α	804	13.144	13.867	9.822	1.00	17.23
1080 CD1	10	1079	CG	PHE	Α	804	14.557	13.645	9.384	1.00	14.85
1082 CE1 PHE A 804 16.335 12.160 8.729 1.00 13.79		1080	CD1	PHE	Α	804	15.012	12.380	9.095	1.00	13.76
1082 CE2 PHE A 804 16.765 14.496 8.936 1.00 13.36 1084 CZ PHE A 804 17.214 13.217 8.647 1.00 12.84 1085 N LEU A 805 14.187 15.086 12.463 1.00 20.30 1086 CA LEU A 805 15.271 15.503 13.339 1.00 20.09 1087 C LEU A 805 15.172 14.767 14.651 1.00 19.83 1088 O LEU A 805 15.172 14.767 14.651 1.00 19.83 1089 CB LEU A 805 15.250 17.008 13.582 1.00 19.58 1090 CG LEU A 805 15.550 17.008 13.582 1.00 19.58 1091 CD1 LEU A 805 15.704 19.281 12.707 1.00 19.84 1092 CD2 LEU A 805 15.704 19.281 12.707 1.00 19.84 1093 N CYS A 806 13.980 14.719 15.233 1.00 20.17 1094 CA CYS A 806 13.980 14.719 15.233 1.00 20.17 1095 C CYS A 806 13.938 12.515 16.378 1.00 20.36 1097 CB CYS A 806 13.938 12.515 16.378 1.00 20.30 1097 CB CYS A 806 12.372 14.332 17.078 1.00 27.50 1098 SG CYS A 806 12.372 14.332 17.078 1.00 27.50 1099 N MET A 807 13.348 11.903 15.350 1.00 19.67 1100 CA MET A 807 13.491 10.458 15.160 1.00 18.10 1101 C MET A 807 13.491 10.458 15.160 1.00 17.75 1102 O MET A 807 13.491 10.458 15.160 1.00 17.75 1104 CG MET A 807 13.491 10.458 15.490 1.00 17.25 1104 CG MET A 807 13.668 9.944 13.989 10.00 17.25 1105 SD MET A 807 10.377 9.142 12.991 1.00 17.25 1106 CE MET A 807 10.377 9.142 12.991 1.00 16.27 1108 CA LYS A 808 15.712 10.871 14.257 1.00 16.27 1109 C LYS A 808 17.157 10.766 15.376 1.00 16.89 1110 O LYS A 808 17.156 10.592 14.054 1.00 16.07 1111 CB LYS A 808 18.731 9.908 15.677 1.00 16.07 11111 CB LYS A 808 17.729 11		1081	CD2	PHE	Α	804	15.440	14.706	9.301	1.00	13.69
1083		1082	CE1	PHE	Α	804	16.335	12.160	8.729	1.00	13.79
1085 N LEU A 805 14.187 15.086 12.463 1.00 20.30	15	1083	CE2	PHE	Α	804	16.765	14.496	8.936	1.00	13.36
1086		1084	CZ	PHE	Α	804	17.214	13.217	8.647	1.00	12.84
1087 C LEU A 805 15.172 14.767 14.651 1.00 19.83 1088 O LEU A 805 15.172 14.767 14.651 1.00 19.83 1089 CB LEU A 805 15.250 17.008 13.582 1.00 19.58 1090 CG LEU A 805 15.552 17.834 12.330 1.00 20.47 1091 CD1 LEU A 805 15.704 19.281 12.707 1.00 19.84 1092 CD2 LEU A 805 16.816 17.343 11.670 1.00 19.41 1093 N CYS A 806 13.980 14.719 15.223 1.00 20.17 1094 CA CYS A 806 13.980 14.719 15.223 1.00 20.17 1095 C CYS A 806 13.938 12.515 16.378 1.00 20.36 1096 O CYS A 806 13.938 12.515 16.378 1.00 20.36 1097 CB CYS A 806 14.575 11.904 17.241 1.00 20.30 1097 CB CYS A 806 12.372 14.332 17.078 1.00 22.13 1098 SG CYS A 806 12.142 16.017 17.706 1.00 27.50 1099 N MET A 807 13.348 11.903 15.350 1.00 19.67 1100 CA MET A 807 13.491 10.458 15.160 1.00 18.10 1101 C MET A 807 13.491 10.458 15.160 1.00 17.75 1102 O MET A 807 13.341 10.062 14.979 1.00 17.75 1103 CB MET A 807 15.371 9.038 15.490 1.00 18.41 1103 CB MET A 807 15.371 9.038 15.490 1.00 16.70 1105 SD MET A 807 10.144 10.560 11.908 1.00 16.70 1106 CE MET A 807 10.144 10.560 11.908 1.00 16.21 1107 N LYS A 808 15.712 10.871 14.257 1.00 17.31 1108 CA LYS A 808 17.15 10.592 14.054 1.00 16.27 1109 C LYS A 808 18.731 9.908 15.677 1.00 16.07 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01 1111 CB LYS A 808 17.729 11.		1085	N	LEU	Α	805	14.187	15.086	12.463	1.00	20.30
1088 O LEU A 805 16.142 14.205 15.106 1.00 20.77 1089 CB LEU A 805 15.250 17.008 13.582 1.00 19.58 1090 CG LEU A 805 15.552 17.834 12.330 1.00 20.47 1091 CD1 LEU A 805 15.552 17.834 12.330 1.00 20.47 1092 CD2 LEU A 805 16.816 17.343 11.670 1.00 19.41 1093 N CYS A 806 13.980 14.719 15.223 1.00 20.17 1094 CA CYS A 806 13.980 14.719 15.223 1.00 21.27 1095 C CYS A 806 13.938 12.515 16.378 1.00 20.36 1096 O CYS A 806 14.575 11.904 17.241 1.00 20.30 1097 CB CYS A 806 12.372 14.332 17.078 1.00 22.13 1098 SG CYS A 806 12.142 16.017 17.706 1.00 27.50 1099 N MET A 807 13.491 10.458 15.160 1.00 18.10 1101 C MET A 807 13.491 10.458 15.400 1.00 18.10 1102 O MET A 807 14.947 10.062 14.979 1.00 17.75 1103 CB MET A 807 15.371 9.038 15.490 1.00 18.41 1103 CB MET A 807 15.371 9.038 15.490 1.00 17.25 1104 CG MET A 807 10.377 9.142 12.911 1.00 19.42 1106 CE MET A 807 10.444 10.560 11.908 1.00 16.70 1107 N LYS A 808 15.712 10.871 14.257 1.00 16.27 1109 C LYS A 808 17.857 10.726 15.376 1.00 16.89 1110 O LYS A 808 17.729 11.514 12.994 1.00 16.07 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01 1111 CB LYS A 808 17.729 11	20	1086	CA	LEU	Α	805	15.271	15.503	13.339	1.00	20.09
1088 CB		1087	С	LEU	Α	805	15.172	14.767	14.651	1.00	19.83
1090 CG		1088	0	LEU	Α	805	16.142	14.205	15.106	1.00	20.77
1090 CG LEU A 805 15.552 17.834 12.350 1.00 20.47 1091 CD1 LEU A 805 15.704 19.281 12.707 1.00 19.84 1092 CD2 LEU A 805 16.816 17.343 11.670 1.00 19.41 1093 N CYS A 806 13.980 14.719 15.223 1.00 20.17 1094 CA CYS A 806 13.980 14.719 15.223 1.00 20.17 1095 C CYS A 806 13.938 12.515 16.378 1.00 20.36 1096 O CYS A 806 13.938 12.515 16.378 1.00 20.36 1097 CB CYS A 806 12.372 14.332 17.078 1.00 22.13 1098 SG CYS A 806 12.372 14.332 17.078 1.00 22.13 1099 N MET A 807 13.348 11.903 15.350 1.00 19.67 1100 CA MET A 807 13.348 11.903 15.350 1.00 19.67 1101 C MET A 807 13.491 10.458 15.160 1.00 18.10 1101 C MET A 807 15.371 9.038 15.490 1.00 17.75 1102 O MET A 807 15.371 9.038 15.490 1.00 18.41 1103 CB MET A 807 10.377 9.142 12.911 1.00 17.25 1106 CE MET A 807 10.377 9.142 12.911 1.00 19.42 1106 CE MET A 807 10.144 10.560 11.908 1.00 16.27 1108 CA LYS A 808 17.716 10.592 14.054 1.00 16.27 1109 C LYS A 808 17.729 11.514 12.994 1.00 16.07 1110 O LYS A 808 17.729 11.514 12.994 1.00 15.01		1089	СВ	LEU	Α	805	15.250	17.008	13.582	1.00	19.58
1092 CD2 LEU A 805 16.816 17.343 11.670 1.00 19.41 10.93 N CYS A 806 13.980 14.719 15.223 1.00 20.17 10.94 CA CYS A 806 13.980 14.719 15.223 1.00 20.17 10.94 CA CYS A 806 13.980 14.719 15.223 1.00 20.17 10.95 C CYS A 806 13.938 12.515 16.378 1.00 20.36 10.96 O CYS A 806 14.575 11.904 17.241 1.00 20.30 10.97 CB CYS A 806 12.372 14.332 17.078 1.00 22.13 10.98 SG CYS A 806 12.372 14.332 17.078 1.00 22.13 10.98 SG CYS A 806 12.142 16.017 17.706 1.00 27.50 10.99 N MET A 807 13.348 11.903 15.350 1.00 19.67 11.00 CA MET A 807 13.491 10.458 15.160 1.00 18.10 11.01 C MET A 807 14.947 10.062 14.979 1.00 17.75 11.02 O MET A 807 15.371 9.038 15.490 1.00 18.41 11.03 CB MET A 807 12.668 9.944 13.989 1.00 17.25 11.04 CG MET A 807 10.377 9.142 12.911 1.00 19.42 11.06 CE MET A 807 10.377 9.142 12.911 1.00 19.42 11.06 CE MET A 807 10.144 10.560 11.908 1.00 16.21 11.00 CA LYS A 808 17.712 10.871 14.257 1.00 17.31 11.08 CA LYS A 808 17.712 10.871 14.257 1.00 16.37 11.09 C LYS A 808 17.729 11.514 12.994 1.00 16.07 11.11 CB LYS A 808 17.729 11.514 12.994 1.00 15.01	25	1090	CG	LEU	Α	805	15.552	17.834	12.330	1.00	20.47
1093 N CYS A 806 13.980 14.719 15.223 1.00 20.17 1094 CA CYS A 806 13.980 14.719 15.223 1.00 20.17 1095 C CYS A 806 13.938 12.515 16.378 1.00 20.36 1096 O CYS A 806 14.575 11.904 17.241 1.00 20.30 1097 CB CYS A 806 12.372 14.332 17.078 1.00 22.13 1098 SG CYS A 806 12.372 14.332 17.078 1.00 27.50 1099 N MET A 807 13.348 11.903 15.350 1.00 19.67 1100 CA MET A 807 13.491 10.458 15.160 1.00 18.10 1101 C MET A 807 14.947 10.062 14.979 1.00 17.75 1102 O MET A 807 15.371 9.038 15.490 1.00 18.41 1103 CB MET A 807 12.668 9.944 13.989 1.00 17.25 1104 CG MET A 807 11.195 9.877 14.279 1.00 16.70 1105 SD MET A 807 10.377 9.142 12.911 1.00 19.42 1106 CE MET A 807 10.377 9.142 12.911 1.00 19.42 1107 N LYS A 808 15.712 10.871 14.257 1.00 17.31 1108 CA LYS A 808 17.857 10.726 15.376 1.00 16.89 1100 O LYS A 808 17.729 11.514 12.994 1.00 15.01		1091	CD1	LEU	Α	805	15.704	19.281	12.707	1.00	19.84
1094 CA CYS A 806 13.765 14.026 16.494 1.00 21.27 1095 C CYS A 806 13.938 12.515 16.378 1.00 20.36 1096 O CYS A 806 14.575 11.904 17.241 1.00 20.30 1097 CB CYS A 806 12.372 14.332 17.078 1.00 22.13 1098 SG CYS A 806 12.142 16.017 17.706 1.00 27.50 1099 N MET A 807 13.348 11.903 15.350 1.00 19.67 1100 CA MET A 807 13.491 10.458 15.160 1.00 18.10 1101 C MET A 807 14.947 10.062 14.979 1.00 17.75 1102 O MET A 807 15.371 9.038 15.490 1.00 17.25 1104 CG MET A 807 11.195 9.877 14.279 1.00 17.25 1105 SD MET A 807 10.377 9.142 12.911 1.00 19.42 1106 CE MET A 807 10.144 10.560 11.908 1.00 16.21 1107 N LYS A 808 15.712 10.871 14.257 1.00 16.27 1109 C LYS A 808 17.857 10.726 15.376 1.00 16.89 1110 O LYS A 808 17.857 10.726 15.376 1.00 16.07 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01		1092	CD2	LEU	Α	805	16.816	17.343	11.670	1.00	19.41
1095 C CYS A 806 13.938 12.515 16.378 1.00 20.36 1096 O CYS A 806 14.575 11.904 17.241 1.00 20.30 1097 CB CYS A 806 12.372 14.332 17.078 1.00 22.13 1098 SG CYS A 806 12.142 16.017 17.706 1.00 27.50 1099 N MET A 807 13.348 11.903 15.350 1.00 19.67 1100 CA MET A 807 13.491 10.458 15.160 1.00 18.10 1101 C MET A 807 14.947 10.062 14.979 1.00 17.75 1102 O MET A 807 15.371 9.038 15.490 1.00 18.41 1103 CB MET A 807 12.668 9.944 13.989 1.00 17.25 1104 CG MET A 807 11.195 9.877 14.279 1.00 16.70 1105 SD MET A 807 10.377 9.142 12.911 1.00 19.42 1106 CE MET A 807 10.144 10.560 11.908 1.00 16.21 1106 CE MET A 807 10.144 10.560 11.908 1.00 16.21 1108 CA LYS A 808 17.712 10.871 14.257 1.00 16.27 1109 C LYS A 808 17.857 10.726 15.376 1.00 16.89 1110 O LYS A 808 17.857 10.726 15.376 1.00 16.07 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01	30	1093	N	CYS	Α	806	13.980	14.719	15.223	1.00	20.17
1096 O CYS A 806 14.575 11.904 17.241 1.00 20.30 1097 CB CYS A 806 12.372 14.332 17.078 1.00 22.13 1098 SG CYS A 806 12.142 16.017 17.706 1.00 27.50 1099 N MET A 807 13.348 11.903 15.350 1.00 19.67 1100 CA MET A 807 13.491 10.458 15.160 1.00 18.10 1101 C MET A 807 14.947 10.062 14.979 1.00 17.75 1102 O MET A 807 15.371 9.038 15.490 1.00 18.41 1103 CB MET A 807 12.668 9.944 13.989 1.00 17.25 1104 CG MET A 807 11.195 9.877 14.279 1.00 16.70 1105 SD MET A 807 10.377 9.142 12.911 1.00 19.42 1106 CE MET A 807 10.144 10.560 11.908 1.00 16.21 1107 N LYS A 808 15.712 10.871 14.257 1.00 16.27 1109 C LYS A 808 17.575 10.726 15.376 1.00 16.89 1110 O LYS A 808 18.731 9.908 15.677 1.00 16.07 1101 CB LYS A 808 18.731 9.908 15.677 1.00 16.07 1110 CB LYS A 808 17.729 11.514 12.994 1.00 15.01		1094	CA	CYS	Α	806	13.765	14.026	16.494	1.00	21.27
1097 CB CYS A 806 12.372 14.332 17.078 1.00 22.13 1098 SG CYS A 806 12.142 16.017 17.706 1.00 27.50 1099 N MET A 807 13.348 11.903 15.350 1.00 19.67 1100 CA MET A 807 13.491 10.458 15.160 1.00 18.10 1101 C MET A 807 14.947 10.062 14.979 1.00 17.75 1102 O MET A 807 15.371 9.038 15.490 1.00 18.41 1103 CB MET A 807 12.668 9.944 13.989 1.00 17.25 1104 CG MET A 807 11.195 9.877 14.279 1.00 16.70 1105 SD MET A 807 10.377 9.142 12.911 1.00 19.42 1106 CE MET A 807 10.144 10.560 11.908 1.00 16.21 1107 N LYS A 808 15.712 10.871 14.257 1.00 17.31 1108 CA LYS A 808 17.116 10.592 14.054 1.00 16.27 1109 C LYS A 808 17.857 10.726 15.376 1.00 16.07 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01 14.054 14.054 1.00 15.01 15.054 1.00 15.01 15.056 11.00 15.01 15.056 11.00 15.01 15.056 11.00 15.01 15.056 11.00 15.01 15.056 11.00 15.01 15.056 11.00 15.01 15.056 11.00 15.01 15.056 11.00 15.01 15.056 11.00 15.01 15.056 11.00 15.01 15.056 11.00 15.01 15.056 11.00 15.01 15.056 11.00 12.10 15.056 11.00 12.10 15.056 12.10 12.00 15.056 12.10 12.00 15.056		1095	С	CYS	Α	806	13.938	12.515	16.378	1.00	20.36
1097 CB CYS A 806 12.372 14.332 17.078 1.00 22.13 1098 SG CYS A 806 12.142 16.017 17.706 1.00 27.50 1099 N MET A 807 13.348 11.903 15.350 1.00 19.67 1100 CA MET A 807 13.491 10.458 15.160 1.00 18.10 1101 C MET A 807 14.947 10.062 14.979 1.00 17.75 1102 O MET A 807 15.371 9.038 15.490 1.00 18.41 1103 CB MET A 807 12.668 9.944 13.989 1.00 17.25 1104 CG MET A 807 11.195 9.877 14.279 1.00 16.70 1105 SD MET A 807 10.377 9.142 12.911 1.00 19.42 1106 CE MET A 807 10.144 10.560 11.908 1.00 16.21 1107 N LYS A 808 15.712 10.871 14.257 1.00 17.31 1108 CA LYS A 808 17.116 10.592 14.054 1.00 16.27 1109 C LYS A 808 18.731 9.908 15.677 1.00 16.07 1110 CB LYS A 808 17.729 11.514 12.994 1.00 15.01		1096	0	CYS	Α	806	14.575	11.904	17.241	1.00	20.30
1099 N MET A 807 13.348 11.903 15.350 1.00 19.67 1100 CA MET A 807 13.491 10.458 15.160 1.00 18.10 1101 C MET A 807 14.947 10.062 14.979 1.00 17.75 1102 O MET A 807 15.371 9.038 15.490 1.00 18.41 1103 CB MET A 807 12.668 9.944 13.989 1.00 17.25 1104 CG MET A 807 11.195 9.877 14.279 1.00 16.70 1105 SD MET A 807 10.377 9.142 12.911 1.00 19.42 1106 CE MET A 807 10.144 10.560 11.908 1.00 16.21 1107 N LYS A 808 15.712 10.871 14.257 1.00 17.31 1108 CA LYS A 808 17.116 10.592 14.054 1.00 16.27 1109 C LYS A 808 17.857 10.726 15.376 1.00 16.89 1110 O LYS A 808 18.731 9.908 15.677 1.00 16.07 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01	35	1097	СВ	CYS	Α	806	12.372	14.332	17.078	1.00	22.13
1100 CA MET A 807 13.491 10.458 15.160 1.00 18.10 1101 C MET A 807 14.947 10.062 14.979 1.00 17.75 1102 O MET A 807 15.371 9.038 15.490 1.00 18.41 1103 CB MET A 807 12.668 9.944 13.989 1.00 17.25 1104 CG MET A 807 11.195 9.877 14.279 1.00 16.70 1105 SD MET A 807 10.377 9.142 12.911 1.00 19.42 1106 CE MET A 807 10.144 10.560 11.908 1.00 16.21 1107 N LYS A 808 15.712 10.871 14.257 1.00 17.31 1108 CA LYS A 808 17.116 10.592 14.054 1.00 16.27 1109 C LYS A 808 17.857 10.726 15.376 1.00 16.89 1110 O LYS A 808 18.731 9.908 15.677 1.00 16.07 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01		1098	SG	CYS	Α	806	12.142	16.017	17.706	1.00	27.50
1101 C MET A 807 14.947 10.062 14.979 1.00 17.75 1102 O MET A 807 15.371 9.038 15.490 1.00 18.41 1103 CB MET A 807 12.668 9.944 13.989 1.00 17.25 1104 CG MET A 807 11.195 9.877 14.279 1.00 16.70 1105 SD MET A 807 10.377 9.142 12.911 1.00 19.42 1106 CE MET A 807 10.144 10.560 11.908 1.00 16.21 1107 N LYS A 808 15.712 10.871 14.257 1.00 17.31 1108 CA LYS A 808 17.116 10.592 14.054 1.00 16.27 1109 C LYS A 808 17.857 10.726 15.376 1.00 16.89 1110 O LYS A 808 18.731 9.908 15.677 1.00 16.07 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01		1099	N	MET	Α	807	13.348	11.903	15.350	1.00	19.67
1102 O MET A 807 15.371 9.038 15.490 1.00 18.41 1103 CB MET A 807 12.668 9.944 13.989 1.00 17.25 1104 CG MET A 807 11.195 9.877 14.279 1.00 16.70 1105 SD MET A 807 10.377 9.142 12.911 1.00 19.42 1106 CE MET A 807 10.144 10.560 11.908 1.00 16.21 1107 N LYS A 808 15.712 10.871 14.257 1.00 17.31 1108 CA LYS A 808 17.116 10.592 14.054 1.00 16.27 1109 C LYS A 808 17.857 10.726 15.376 1.00 16.89 1110 O LYS A 808 18.731 9.908 15.677 1.00 16.07 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01	40	1100	CA	MET	Α	807	13.491	10.458	15.160	1.00	18.10
1102		1101	С	MET	Α	807	14.947	10.062	14.979	1.00	17.75
1104 CG MET A 807 11.195 9.877 14.279 1.00 16.70 1105 SD MET A 807 10.377 9.142 12.911 1.00 19.42 1106 CE MET A 807 10.144 10.560 11.908 1.00 16.21 1107 N LYS A 808 15.712 10.871 14.257 1.00 17.31 1108 CA LYS A 808 17.116 10.592 14.054 1.00 16.27 1109 C LYS A 808 17.857 10.726 15.376 1.00 16.89 1110 O LYS A 808 18.731 9.908 15.677 1.00 16.07 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01		1102	0	MET	Α	807	15.371	9.038	15.490	1.00	18.41
1104 CG MET A 807 11.195 9.877 14.279 1.00 16.70 1105 SD MET A 807 10.377 9.142 12.911 1.00 19.42 1106 CE MET A 807 10.144 10.560 11.908 1.00 16.21 1107 N LYS A 808 15.712 10.871 14.257 1.00 17.31 1108 CA LYS A 808 17.116 10.592 14.054 1.00 16.27 1109 C LYS A 808 17.857 10.726 15.376 1.00 16.89 1110 O LYS A 808 18.731 9.908 15.677 1.00 16.07 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01	45	1103	СВ	MET	Α	807	12.668	9.944	13.989	1.00	17.25
1106 CE MET A 807 10.144 10.560 11.908 1.00 16.21 1107 N LYS A 808 15.712 10.871 14.257 1.00 17.31 1108 CA LYS A 808 17.116 10.592 14.054 1.00 16.27 1109 C LYS A 808 17.857 10.726 15.376 1.00 16.89 1110 O LYS A 808 18.731 9.908 15.677 1.00 16.07 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01	45	1104	CG	MET	Α	807	11.195	9.877	14.279	1.00	16.70
50 1100 GL Intel A 808 15.712 10.871 14.257 1.00 17.31 1108 CA LYS A 808 17.116 10.592 14.054 1.00 16.27 1109 C LYS A 808 17.857 10.726 15.376 1.00 16.89 1110 O LYS A 808 18.731 9.908 15.677 1.00 16.07 55 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01		1105	SD	MET	Α	807	10.377	9.142	12.911	1.00	19.42
1108 CA LYS A 808 17.116 10.592 14.054 1.00 16.27 1109 C LYS A 808 17.857 10.726 15.376 1.00 16.89 1110 O LYS A 808 18.731 9.908 15.677 1.00 16.07 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01		1106	CE	MET	Α	807	10.144	10.560	11.908	1.00	16.21
1109 C LYS A 808 17.857 10.726 15.376 1.00 16.89 1110 O LYS A 808 18.731 9.908 15.677 1.00 16.07 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01	50	1107	N	LYS	Α	808	15.712	10.871	14.257	1.00	17.31
55 1110 O LYS A 808 18.731 9.908 15.677 1.00 16.07 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01		1108	CA	LYS	Α	808	17.116	10.592	14.054	1.00	16.27
55 1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01		1109	С	LYS	Α	808	17.857	10.726	15.376	1.00	16.89
1111 CB LYS A 808 17.729 11.514 12.994 1.00 15.01	55	1110	0	LYS	Α	808	18.731	9.908	15.677	1.00	16.07
1112 CG LYS A 808 19.171 11.154 12.733 1.00 14.63	J.J	1111	СВ	LYS	Α	808	17.729	11.514	12.994	1.00	15.01
		1112	CG	LYS	Α	808	19.171	11.154	12.733	1.00	14.63

		THREE-D	IMENSIONAL	L COO	RDINA	TES OF AR I	N COMPLE	X WITH D	łТ	
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	1113	CD	LYS	Α	808	19.679	11.569	11.371	1.00	15.42
	1114	CE	LYS	Α	808	19.422	13.053	11.092	1.00	15.64
	1115	NZ	LYS	Α	808	20.232	13.940	11.928	1.00	14.15
10	1116	N	ALA	Α	809	17.522	11.747	16.166	1.00	16.53
	1117	CA	ALA	Α	809	18.175	11.931	17.461	1.00	17.68
	1118	С	ALA	Α	809	17.989	10.691	18.348	1.00	19.03
45	1119	0	ALA	A	809	18.932	10.207	18.996	1.00	20.50
15	1120	СВ	ALA	Α	809	17.628	13.139	18.155	1.00	16.91
	1121	N	LEU	A	810	16.766	10.184	18.392	1.00	19.36
	1122	CĄ	LEU	Α	810	16.459	9.011	19.186	1.00	18.99
20	1123	С	LEU	A	810	17.116	7.716	18.722	1.00	18.88
	1124	0	LEU	Α	810	17.213	6.780	19.509	1.00	20.78
	1125	СВ	LEU	Α	810	14.966	8.811	19.263	1.00	19.09
25	1126	CG	LEU	Α	810	14.406	9.020	20.651	1.00	20.20
23	1127	CD1	LEU	4	810	12.954	8.606	20.594	1.00	21.29
	1128	CD2	LEU	Α	810	15.176	8.199	21.674	1.00	18.75
	1129	N	LEU	Α	811	17.537	7.636	17.456	1.00	17.63
30	1130	CA	LEU	Α	811	18.215	6.447	16.959	1.00	15.58
	1131	С	LEU	Α	811	19.598	6.328	17.582	1.00	15.42
	1132	0	LEU	Α	811	20.189	5.252	17.554	1.00	17.27
35	1133	СВ	LEU	Α	811	18.346	6.456	15.438	1.00	14.70
	1134	CG	LEU	Α	811	17.148	6.107	14.574	1.00	14.14
	1135	CD1	LEU	Α	811	17.511	6.408	13.164	1.00	13.66
	1136	CD2	LEU	Α	811	16.744	4.632	14.746	1.00	13.62
40	1137	N	LEU	Α	812	20.153	7.429	18.084	1.00	13.97
	1138	CA	LEU	Α	812	21.455	7.373	18.734	1.00	12.94
	1139	С	LEU	Α	812	21.330	6.658	20.098	1.00	12.97
45	1140	0	LEU	Α	812	22.282	6.118	20.629	1.00	12.99
	1141	СВ	LEU	Α	812	22.004	8.790	18.937	1.00	12.69
	1142	CG	LEU	Α	812	23.342	8.893	19.670	1.00	12.03
	1143	CD1	LEU	Α	812	24.488	8.422	18.802	1.00	12.16
50	1144	CD2	LEU	Α	812	23.559	10.325	20.037	1.00	13.12
	1145	N	PHE	Α	813	20.136	6.681	20.662	1.00	13.55
	1146	CA	PHE	Α	813	19.859	6.064	21.950	1.00	14.19
55	1147	С	PHE	Α	813	18.971	4.856	21.753	1.00	14.71
	1148	0	PHE	Α	813	18.058	4.618	22.530	1.00	14.79
l	1149	СВ	PHE	Α	813	19.137	7.088	22.821	1.00	15.20

						continued)	LCOMPLEX	WITH DH	т	
			IMENSIONAL		-	Y	Z	occ	в	ATOM
-	ATOM	ATOM TYPE	RESIDUE	#	X		8.435	22.841	1.00	16.11
5	1150	CG	PHE	_ <u>A</u> _	813	19.818	8.640	23.624	1.00	15.97
	1151	CD1	PHE	A	813	20.946	9.472	22.036	1.00	16.07
	1152	CD2	PHE	A	813	19.349	9.472	23.615	1.00	18.37
10	1153	CE1	PHE	A .	813	21.604		22.014	1.00	17.54
	1154	CE2	PHE	Α	813	19.991	10.687	22.801	1.00	17.99
	1155	CZ	PHE	Α	813	21.126		20.709	1.00	16.09
	1156	N	SER	A	814	19.255	4.082	20.765	1.00	15.96
15	1157	CA	SER	A	814	18.453	2.917		1.00	16.05
	1158	С	SER	A	814	19.169	1.581	20.294	1.00	17.02
	1159	0	SER	A	814	18.610	0.620	19.779	1.00	15.79
20	1160	СВ	SER	Α	814	17.697	3.172	19.062		15.51
	1161	OG	SER	A	814	16.640	4.087	19.274	1.00	
	1162	N	ILE	A	815	20.395	1.498	20.779	1.00	16.07
	1163	CA	ILE	Α	815	21.099	0.226	20.747	1.00	17.04
25	1164	С	ILE	A	815	22.172	0.187	21.826	1.00	17.86
	1165	0	ILE	A	815	23.111	0.981	21.802	1.00	18.49
	1166	СВ	ILE	Α	815	21.620	-0.086	19.325	1.00	16.75
30	1167	CG1	ILE	A	815	22.600	-1.245	19.341	1.00	17.01
	1168	CG2	ILE	Α	815	22.222	1.113	18.706	1.00	17.43
	1169	CD1	ILE	Α	815	22.915	-1.753	17.953	1.00	17.98
	1170	N	ILE	Α	816	21.994	-0.700	22.809	1.00	18.25
35	1171	CA	ILE	Α	816	22.913	-0.804	23.947	1.00	18.91
	1172	С	ILE	Α	816	23.302	-2.226	24.385	1.00	20.13
	1173	0	ILE	Α	816	22.615	-3.184	24.040	1.00	20.43
40	1174	СВ	ILE	Α	816	22.298	-0.099	25.178	1.00	19.07
	1175	CG1	ILE	А	816	20.939	-0.692	25.537	1.00	18.04
	1176	CG2	ILE	Α	816	22.175	1.378	24.921	1.00	17.73
	1177	CD1	ILE	Α	816	20.516	-0.346	26.933	1.00	17.73
45	1178	N	PRO	Α	817	24.392	-2.385	25.180	1.00	20.85
	1179	CA	PRO	Α	817	24.805	-3.720	25.631	1.00	22.05
	1180	С	PRO	Α	817	23.706	-4.320	26.458	1.00	22.95
50	1181	0	PRO	A	817	22.988	-3.594	27.151	1.00	23.12
	1182	СВ	PRO	A	817	26.016	-3.444	26.523	1.00	21.47
	1183	CG	PRO	A	817	26.554	-2.197	26.001	1.00	21.80
	1184	CD	PRO	А	817	25.303	-1.373	25.730	1.00	21.00
55	1185	N	VAL	A	818	23.585	-5.640	26.418	1.00	24.79
	1186		VAL	A	818	22.544	-6.316	27.195	1.00	26.35
						<u> </u>				

TABLE 8 (continued)

	THREE-D	IMENSIONA	L COO	RDINA	TES OF AR II	N COMPLE	X WITH DI	-IT	
ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	MOTA
1187	С	VAL	Α	818	22.742	-6.047	28.692	1.00	26.79
1188	0	VAL	Α	818	21.777	-5.849	29.421	1.00	26.79
1189	СВ	VAL	Α	818	22.513	-7.860	26.916	1.00	27.19
1190	CG1	VAL	Α	818	23.864	-8.515	27.282	1.00	27.82
1191	CG2	VAL	Α	818	21.362	-8.524	27.676	1.00	27.72
1192	N	ASP	Α	819	23.992	-5.963	29.136	1.00	27.83
1193	CA	ASP	Α	819	24.240	-5.732	30.550	1.00	29.78
1194	С	ASP	Α	819	24.377	-4.266	30.937	1.00	29.73
1195	0	ASP	Α	819	24.899	-3.930	32.007	1.00	30.00
1196	СВ	ASP	Α	819	25.406	-6.593	31.063	1.00	32.59
1197	CG	ASP	Α	819	26.747	-5.908	30.959	1.00	35.35
1198	OD1	ASP	Α	819	27.117	-5.518	29.825	1.00	38.62
1199	OD2	ASP	Α	819	27.431	-5.776	32.011	1.00	36.18
1200	N	GLY	Α	820	23.839	-3.403	30.085	1.00	29.43
1201	CA	GLY	Α	820	23.878	-1.974	30.342	1.00	28.69
1202	С	GLY	Α	820	25.216	-1.317	30.125	1.00	27.42
1203	0	GLY	Α	820	26.221	-1.982	29.938	1.00	26.73
1204	N	LEU	Α	821	25.208	0.010	30.135	1.00	28.29
1205	CA	LEU	Α	821	26.410	0.831	29.947	1.00	28.64
1206	С	LEU	Α	821	26.948	1.164	31.349	1.00	28.62
1207	0	LEU	Α	821	26.341	0.747	32.342	1.00	28.84
1208	СВ	LEU	Α	821	26.023	2.110	29.195	1.00	28.29
1209	CG	LEU	Α	821	25.083	1.940	27.991	1.00	28.32
1210	CD1	LEU	Α	821	24.046	3.022	28.031	1.00	27.27
1211	CD2	LEU	Α	821	25.831	1.953	26.653	1.00	27.18
1212	N	LYS	Α	822	28.060	1.897	31.441	1.00	28.49
1213	CA	LYS	Α	822	28.642	2.268	32.741	1.00	29.80
1214	С	LYS	Α	822	27.621	3.016	33.587	1.00	30.25
1215	0	LYS	Α	822	27.353	2.655	34.731	1.00	31.02
1216	СВ	LYS	Α	822	29.865	3.169	32.576	1.00	30.45
1217	CG	LYS	Α	822	30.924	2.626	31.666	1.00	32.84
1218	CD	LYS	Α	822	31.517	1.345	32.194	1.00	35.27
1219	CE	LYS	Α	822	32.433	0.688	31.161	1.00	36.20
1220	NZ	LYS	Α	822	33.498	1.623	30.710	1.00	37.22
1221	N	ASN	Α	823	27.065	4.080	33.029	1.00	29.98
1222	CA	ASN	Α	823	26.070	4.852	33.735	1.00	29.55
1223	С	ASN	Α	823	24.807	4.665	32.943	1.00	28.73

TABLE 8 (continued)

		THREE-C	IMENSIONA	L COC	RDINA	TES OF AR	IN COMPLE	X WITH D	нт	·
_	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	осс	В	ATOM
5	1224	0	ASN	Α	823	24.476	5.473	32.091	1.00	29.00
	1225	СВ	ASN	Α	823	26.458	6.323	33.774	1.00	31.17
	1226	CG	ASN	Α	823	27.832	6.544	34.350	1.00	32.55
10	1227	OD1	ASN	Α	823	28.787	5.856	33.985	1.00	33.56
	1228	ND2	ASN	Α	823	27.952	7.520	35.246	1.00	34.42
	1229	N	GLN	Α	824	24.127	3.562	33.199	1.00	27.99
15	1230	CA	GLN	Α	824	22.893	3.227	32.514	1.00	27.77
,5	1231	С	GLN	Α	824	21.723	4.115	32.960	1.00	27.61
	1232	0	GLN	Α	824	20.747	4.275	32.226	1.00	27.58
	1233	СВ	GLN	Α	824	22.590	1.731	32.738	1.00	28.13
20	1234	CG	GLN	Α	824	21.343	1.158	32.077	1.00	28.93
	1235	CD	GLN	Α	824	21.331	1.302	30.551	1.00	30.20
	1236	OE1	GLN	Α	824	22.300	0.976	29.855	1.00	30.02
25	1237	NE2	GLN	Α	824	20.211	1.775	30.028	1.00	29.72
	1238	N	LYS	Α	825	21.833	4.752	34.122	1.00	27.13
	1239	CA	LYS	Α	825	20.742	5.590	34.595	1.00	26.37
	1240	С	LYS	Α	825	20.679	6.917	33.876	1.00	24.74
30	1241	0	LYS	Α	825	19.625	7.518	33.799	1.00	25.30
	1242	СВ	LYS	Α	825	20.815	5.802	36.113	1.00	28.08
_	1243	CG	LYS	Α	825	19.430	5.823	36.792	1.00	31.02
35	1244	CD	LYS	Α	825	19.493	5.693	38.335	1.00	33.41
	1245	CE	LYS	Α	825	18.086	5.725	39.002	1.00	34.57
	1246	NZ	LYS	Α	825	17.196	4.516	38.739	1.00	35.55
	1247	N	PHE	Α	826	21.794	7.375	33.330	1.00	24.06
40	1248	CA	PHE	Α	826	21.830	8.646	32.597	1.00	23.44
	1249	С	PHE	Α	826	21.344	8.463	31.178	1.00	21.78
	1250	0	PHE	Α	826	20.808	9.380	30.568	1.00	21.42
45	1251	СВ	PHE	Α	826	23.247	9.191	32.573	1.00	25.61
	1252	CG	PHE	Α	826	23.768	9.527	33.930	1.00	28.86
,	1253	CD1	PHE	Α	826	22.916	10.067	34.890	1.00	29.49
,	1254	CD2	PHE	Α	826	25.091	9.284	34.268	1.00	29.08
50	1255	CE1	PHE	Α	826	23.373	10.356	36.156	1.00	29.57
	1256	CE2	PHE	Α	826	25.551	9.571	35.533	1.00	29.80
	1257	CZ	PHE	Α	826	24.688	10.108	36.479	1.00	30.14
55	1258	N	PHE	Α	827	21.581	7.277	30.636	1.00	20.42
	1259	CA	PHE	Α	827	21.145	6.937	29.299	1.00	18.74
	1260	С	PHE	Α	827	19.627	6.778	29.277	1.00	19.19

		THREE-C	IMENSIONAL	L COO	RDINA	TES OF AR I	N COMPLE	X WITH D	-T	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	1261	0	PHE	Α	827	18.962	7.183	28.331	1.00	18.79
	1262	СВ	PHE	Α	827	21.814	5.644	28.857	1.00	17.62
	1263	CG	PHE	Α	827	21.238	5.083	27.610	1.00	16.77
10	1264	CD1	PHE	Α	827	21.780	5.412	26.380	1.00	16.74
	1265	CD2	PHE	Α	827	20.123	4.261	27.656	1.00	16.46
	1266	CE1	PHE	Α	827	21.225	4.939	25.212	1.00	16.50
	1267	CE2	PHE	Α	827	19.555	3.782	26.491	1.00	17.41
15	1268	CZ	PHE	Α	827	20.105	4.120	25.266	1.00	16.35
	1269	N	ASP	A	828	19.079	6.150	30.312	1.00	20.42
	1270	CA	ASP	A	828	17.638	5.943	30.421	1.00	21.69
20	1271	С	ASP	Α	828	16.931	7.287	30.572	1.00	21.41
	1272	0	ASP	A	828	15.835	7.487	30.070	1.00	21.87
	1273	СВ	ASP	Α	828	17.325	5.045	31.633	1.00	23.37
25	1274	CG	ASP	Α	828	17.885	3.627	31.487	1.00	24.46
25	1275	OD1	ASP	Α	828	17.900	3.095	30.365	1.00	26.34
	1276	OD2	ASP	Α	828	18.296	3.023	32.501	1.00	26.77
	1277	N	GLU	Α	829	17.552	8.187	31.313	1.00	22.11
30	1278	CA	GLU	Α	829	17.005	9.510	31.533	1.00	23.92
	1279	С	GLU	Α	829	17.011	10.166	30.174	1.00	22.78
	1280	0	GLU	Α	829	15.963	10.539	29.656	1.00	22.06
35	1281	СВ	GLU	Α	829	17.910	10.309	32.499	1.00	27.77
	1282	CG	GLU	Α	829	18.168	11.823	32.130	1.00	32.20
	1283	CD	GLU	Α	829	19.650	12.266	32.334	1.00	35.29
	1284	OE1	GLU	Α	829	20.005	12.655	33.482	1.00	37.06
40	1285	OE2	GLU	Α	829	20.463	12.217	31.360	1.00	34.89
	1286	N	LEU	Α	830	18.201	10.200	29.575	1.00	22.21
	1287	CA	LEU	Α	830	18.437	10.812	28.272	1.00	22.14
45	1288	С	LEU	Α	830	17.499	10.318	27.191	1.00	22.74
	1289	0	LEU	Α	830	16.874	11.114	26.481	1.00	23.35
	1290	СВ	LEU	Α	830	19.885	10.575	27.852	1.00	21.24
	1291	CG	LEU	Α	830	20.415	11.572	26.833	1.00	21.76
50	1292	CD1	LEU	Α	830	20.037	13.004	27.215	1.00	21.40
	1293	CD2	LEU	Α	830	21.895	11.429	26.752	1.00	22.34
	1294	N	ARG	Α	831	17.400	9.002	27.079	1.00	22.23
55	1295	CA	ARG	Α	831	16.559	8.352	26.097	1.00	22.37
·	1296	С	ARG	Α	831	15.086	8.667	26.302	1.00	22.46
	1297	0	ARG	Α	831	14.354	8.964	25.351	1.00	22.89

				TAE	SLE 8	(con	tinued)	LCOM	PLEX'	WITH DHT			
[THREE-	DIMENSIONAL				Y	Z		осс	В	AT	ОМ
	ATOM	ATOM TYPE	RESIDUE	#	X		6.780	6.8	49	26.186	1.00	22	.50
5	1298	СВ	ARG	A	83		5.957		87	25.219	1.00	22	.59
İ	1299	CG	ARG	A	83				500	25.375	1.00	23	.29
	1300	CD	ARG	A	83		6.130	├ ──	972	24.074	1.00	25	5.50
10	1301	NE	ARG	A	83		5.921		800	23.491	1.00	24	1.36
10	1302	CZ	ARG	A	8:		14.738 13.632	 	173	24.096	1.00) 2	5.37
	1303	NH1	ARG	<u>^</u>	+-				366	22.250	1.00) 2	4.31
	1304	NH2	ARG	A			14.676		.593	27.550	1.0	0 2	2.76
15	1305	N	MET	A	-		14.655		.859	27.923	1.0	0 2	2.91
	1306	CA	MET	_ A			13.276		.262	27.513	1.0	0 2	3.47
	1307	С	MET	A			12.879		.512	27.097	1.0	0 2	23.79
20	1308	0	MET	A		332	11.740		3,762	29.429	1.0	00 2	23.88
20	1309	СВ	MET	A		832	13.126		9.050	29,870	1.0	00 3	24.65
	1310	CG	MET	A	`	832	11.739		9.332	31.596	1.0	00	29.43
	1311	SD	MET		`	832	11.693		0.026	31.651	1.	00	29.67
25	1312	CE	MET		1	832	10.059		1.198	27.768	1.	00	23.63
	1313	N	ASN		1	833	13.782		2.599	27.423	1.	00	23.80
	1314	CA	ASN		A	833	13.562		2.761	25.905	+-:	.00	23.94
30	1315	С	ASN		<u> </u>	833	13.403		3.397	25.445		.00	24.48
30	1316	0	ASN		A	833	12.463		13.482		٠.	.00	23.64
	1317	СВ	ASN		A	833	14.676		13.402			.00	23.87
	1318	3 CG	ASN		A	833	14.532		13.864		+-	.00	23.24
35	131	9 OD1	ASN		A	833	15.519		13.628		_+-	.00	24.57
	132		ASN		Α	833						1.00	23.69
	132		TYP		Α	834			12.093		_	1.00	24.70
40	132		TYF		Α	834			12.16		_	1.00	24.43
-10	132		TYF	}	Α	834		-+	11.57			1.00	24.26
	132		TYF	3	Α	834			12.00			1.00	25.39
	132		TYI	3	Α	834			11.53			1.00	25.49
45	13:		TY	3	Α	834			12.48		+	1.00	26.75
		27 CD1	TY	R	Α	834		-+	13.05		-+	1.00	26.00
	 	28 CD	2 TY	R	Α	83		+	12.86		 +	1.00	27.67
50	 	29 CE	1 TY	R	Α	83			13.97			1.00	
		330 CE	2 TY	'R	Α	83			13.7			1.00	
		331 CZ	z TY	'R	Α	83			14.3			1.00	+
	ļ	332 OI	1 T	/R	Α	83			15.2		843	1.00	-
55	-	333 N	IL	E	Α	83	35 12.2		10.5		450	1.00	+
	 	334 C.	A II	.E	Α	8	35 11.0	04	9.9	91 23.		1	

TABLE 8 (continued)

		THREE-D	IMENSIONAL	COO	RDINA	res of ar i	N COMPLE	X WITH D	ΗT	
	ATOM	ATOM TYPE	RESIDUE	#	х	Υ	Z	occ	В	ATOM
5	1335	С	ILE	Α	835	9.893	10.977	23.687	1.00	25.05
	1336	0	ILE	Α	835	8.972	11.061	22.889	1.00	26.24
	1337	СВ	ILE	Α	835	10.724	8.727	24.235	1.00	21.33
10	1338	CG1	ILE	Α	835	11.657	7.624	23.756	1.00	20.40
	1339	CG2	ILE	Α	835	9.297	8.308	24.054	1.00	19.87
	1340	CD1	ILE	Α	835	11.684	6.400	24.655	1.00	21.05
	1341	N	LYS	Α	836	9.998	11.738	24.771	1.00	26.82
15	1342	CA	LYS	Α	836	9.006	12.747	25.137	1.00	28.28
	1343	С	LYS	Α	836	9.030	13.919	24.164	1.00	28.39
	1344	0	LYS	A	836	7.997	14.545	23.946	1.00	29.09
20	1345	СВ	LYS	Α	836	9.245	13.281	26.556	1.00	29.95
	1346	CG	LYS	Α	836	9.115	12.252	27.712	1.00	32.62
	1347	CD	LYS	Α	836	7.690	11.672	27.901	1.00	33.04
25	1348	CE	LYS	Α	836	7.575	10.238	27.344	1.00	34.32
25	1349	NZ	LYS	Α	836	8.559	9.259	27.942	1.00	32.90
	1350	N	GLU	Α	837	10.194	14.249	23.606	1.00	28.61
	1351	CA	GLU	Α	837	10.276	15.351	22.643	1.00	28.70
30	1352	С	GLU	Α	837	9.666	14.907	21.321	1.00	28.92
	1353	0	GLU	Α	837	9.041	15.699	20.626	1.00	28.40
	1354	СВ	GLU	Α	837	11.715	15.824	22.439	1.00	29.34
35	1355	CG	GLU	Α	837	12.305	16.584	23.627	1.00	32.13
33	1356	CD	GLU	Α	837	11.553	17.887	23.971	1.00	34.30
	1357	OE1	GLU	Α	837	11.612	18.303	25.157	1.00	34.18
	1358	OE2	GLU	Α	837	10.925	18.503	23.063	1.00	35.58
40	1359	N	LEU	Α	838	9.826	13.631	20.991	1.00	29.32
	1360	CA	LEU	Α	838	9.250	13.092	19.774	1.00	30.90
	1361	С	LEU	Α	838	7.740	13.211	19.884	1.00	32.66
45	1362	0	LEU	Α	838	7.076	13.706	18.983	1.00	32.60
75	1363	СВ	LEU	Α	838	9.614	11.622	19.592	1.00	30.44
	1364	CG	LEU	Α	838	8.810	10.983	18.460	1.00	30.56
	1365	CD1	LEU	Α	838	9.077	11.728	17.151	1.00	30.31 ⁻
50	1366	CD2	LEU	Α -	838	9.166	9.533	18.330	1.00	30.00
	1367	N	ASP	Α	839	7.186	12.724	20.979	1.00	34.82
	1368	CA	ASP	Α	839	5.755	12.823	21.162	1.00	37.61
55	1369	С	ASP	Α	839	5.338	14.293	21.187	1.00	38.83
-	1370	0	ASP	Α	839	4.285	14.645	20.672	1.00	39.02
	1371	СВ	ASP	Α	839	5.331	12.117	22.449	1.00	39.22

					TAE	SLE (B (0	contin	nued)	COM	IPI FX	WITH I	DHT			
Г		THREE-	DIMENS	IONAL	CO0	RDII	NAT	ES O	F AH IN	Z		occ	\top	В	ATC	M
ŀ	ATOM	ATOM TYPE	_	DUE	#	-	-			11.9		22.557		.00	41.5	54
5	1372	CG	AS	SP	A	┼-	39		316		375	23.59		.00	43.	10
ŀ	1373	OD1	AS	SP	Α		39	ļ	249		400	21.61	3 1	.00	42.	60
ļ	1374	OD2	AS	SP	Α	4-	39	 	192		151	21.73	11	1.00	40.	51
	1375	N	AF	RG	Α	4-	340	├	195		.580	21.82		1.00	42.	20
10	1376	CA	Al	RG	A		340		.916		.220	20.45	57	1.00	43	.27
	1377	С	A	RG	A		840	┼	.776		.004	20.23	32	1.00	43	.50
	1378	0	A	RG	A		840	 -	.860 7.032	┼	.289	22.6	10	1.00	43	.32
15	1379	СВ	A	RG	A		840	+-	6.657	1-	3.639	23.2	61	1.00	45	5.47
	1380	CG	A	ARG	A	_	840	+		-	9.881	22.4	01	1.00	46	5.95
	1381	CD	- /	ARG	A		840		6.945 		0.371	22.5	542	1.00	4	8.57
00	1382	NE	/	ARG	A	1	840		8.319		0.823	21.5	533	1.00) 4	9.57
20	1383	CZ		ARG	1	1	840	+	9.066		0.860	20.2	294	1.00) 4	9.89
	1384	NH1		ARG	1	4	84		8.580		1.220	21.	755	1.0	0 4	9.90
	1385	NH2		ARG		<u> </u>	84		0.314		6.876	19.	528	1.0	0 4	14.53
25	1386	N		ILE		<u> </u>	84		6.663		17.483	+	.211	1.0	0 4	16.22
	1387	CA		ILE		<u> </u>	84		6.600		16.913	 	.286	1.0	0	48.04
	1388	3 C		ILE		Α	84	-+	5.534		17.272		.109	1.0	00	48.90
30	138	9 0		ILE		Α		41	5.472		17.572		'.510	1.0	00	45.82
30	139	0 СВ		ILE		Α	├	41	7.983		16.23	+	5.918	1.0	00	46.46
	139	1 CG1		ILE		Α	 	41	8.383 9.044		18.07		3.463	1.	00	46.40
	139	2 CG2		ILE		Α	—	41	8.064	-+	16.15	_	5.463	1.	00	45.92
35	139	3 CD1		ILE	_	_A	-	341	4.737		15.97		7.786	1.	.00	49.91
	139	94 N		ILE		A	—	342	3.632		15.44		6.990	1	.00	51.38
	13	95 CA		ILE	_	A	+	842	2.384	-+	16.00	-+-:	7.659	1	.00	52.63
40	13	96 C		ILE		Α		842	1.509	-+	16.5		16.999	9 1	.00	52.38
	13	97 0		ILE		<u>A</u>		842	3.57		13.8		16.88	9 1	.00	51.11
	13	98 CE	3	ILE		A	+	842	4.52		13.1		17.87	0	1.00	50.67
	13	399 CG	i1	ILE		A	+	842	3.91		13.4		15.48	2	1.00	51.75
45	14	400 CG	2	ILE		A	-+	842	4.69		11.7		17.61	9	1.00	49.36
	1.	401 CE	01	ILE		A	-+	842	1-00		15.9	939	18.98	36	1.00	54.81
	1	402 N	1	AL	A 	A	-+	843	+		16.4	456	19.76	61	1.00	57.2
50	1	403 C	Α	AL	<u> </u>	1		843	+		17.	962	19.5	57	1.00	59.2
	1	404	0	AL		┼	-	843	+		18.	704	20.3	04	1.00	59.6
	-	1405	0	AL		+-	<u> </u>	843			16.	129	21.2	47	1.00	56.6
	<u> </u>	1406	В	Al			Α	843	+	60		.391	18.4	81	1.00	61.6
55		1407	N	 	YS		<u> </u>	844	-	102	19	.810	18.1	30	1.00	63.6
		1408	CA	C	YS		<u> </u>	84	- 0							

TABLE 8 (continued)

- !		THREE-C	IMENSIONA	L COO	RDINA	TES OF AR I	N COMPLE	X WITH DI	НТ	_
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
	1409	С	CYS	Α	844	-0.441	19.854	16.848	1.00	64.63
	1410	0	CYS	Α	844	-1.618	19.471	16.889	1.00	64.70
	1411	СВ	CYS	Α	844	1.766	20.536	17.979	1.00	64.05
	1412	SG	CYS	Α	844	2.751	20.268	16.470	1.00	65.30
	1413	N	LYS	Α	845	0.136	20.332	15.738	1.00	65.65
	1414	CA	LYS	Α	845	-0.545	20.374	14.439	1.00	65.96
	1415	С	LYS	A	845	-0.079	19.165	13.644	1.00	66.49
	1416	0	LYS	A	845	-0.675	18.829	12.620	1.00	66.85
	1417	СВ	LYS	A	845	-0.195	21.639	13.684	1.00	65.80
	1418	N	ARG	4	846	0.998	18.533	14.127	1.00	66.74
	1419	CA	ARG	A	846	1.601	17.343	13.511	1.00	66.90
	1420	С	ARG	A	846	0.984	16.074	14.086	1.00	66.88
l	1421	0	ARG	Α	846	1.675	15.092	14.345	1.00	66.35
	1422	СВ	ARG	Α	846	3.110	17.337	13.730	1.00	66.74
	1423	N	LYS	Α	847	-0.325	16.141	14.291	1.00	67.27
	1424	CA	LYS	Α	847	-1.162	15.076	14.826	1.00	67.87
	1425	С	LYS	Α	847	-2.420	15.816	15.251	1.00	68.35
Į	1426	0	LYS	Α	847	-2.432	17.046	15.278	1.00	68.33
_	1427	СВ	LYS	Α	847	-0.515	14.407	16.033	1.00	68.14
	1428	N	ASN	Α	848	-3.468	15.079	15.597	1.00	69.11
	1429	CA	ASN	Α	848	-4.728	15.685	16.016	1.00	69.71
	1430	С	ASN	Α	848	-5.737	14.586	16.340	1.00	70.20
	1431	0	ASN	Α	848	-5.342	13.474	16.720	1.00	70.21
	1432	СВ	ASN	Α	848	-5.272	16.598	14.907	1.00	69.68
	1433	N	PRO	Α	849	-7.021	14.914	16.146	1.00	70.54
	1434	CA	PRO	Α	849	-8.185	14.043	16.374	1.00	70.31
	1435	С	PRO	Α	849	-7.856	12.661	16.920	1.00	69.92
	1436	0	PRO	Α	849	-7.665	12.492	18.130	1.00	70.12
	1437	СВ	PRO	Α	849	-9.014	13.929	15.079	1.00	70.65
Ĺ	1438	N	THR	Α	850	-7.808	11.680	16.020	1.00	69.47
	1439	CA	THR	Α	850	-7.473	10.304	16.377	1.00	68.74
	1440	С	THR	Α	850	-6.061	10.015	15.845	1.00	67.76
L	1441	0	THR	Α	850	-5.590	8.867	15.864	1.00	67.27
	1442	СВ	THR	Α	850	-8.494	9.331	15.774	1.00	68.95
	1443	N	SER	Α	851	-5.391	11.077	15.388	1.00	66.46
	1444	CA	SER	Α	851	-4.046	10.962	14.846	1.00	65.28
	1445	С	SER	Α	851	-3.023	10.710	15.944	1.00	64.16

TABLE 8 (continued)

			IMENSIONAL	0005	TE 8	TES	OF AR IN	COMPLEX	WITH DH	Γ	
					X	T	Y	Z	occ	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	#	 851	-2	.426	9.639	15.969	1.00	64.16
5	1446	0	SER	Α	851	┼	3.664	12.200	14.018	1.00	65.24
	1447	CB	SER	A .	851	+	2.405	12.037	13.369	1.00	65.05
	1448	OG	SER	A .	852	+-	2.873	11.651	16.879	1.00	62.68
10	1449	N	CYS	A			1.901	11.526	17.974	1.00	60.96
	1450	CA	CYS	A .	852	+	1.480	10.102	18.388	1.00	59.71
	1451	С	CYS	A	852	-	0.282	9.800	18.422	1.00	59.67
	1452	0	CYS	A	852	-	2.353	12.333	19.191	1.00	61.34
15	1453	СВ	CYS	A	852	+-	1.712	14.024	19.216	1.00	62.06
	1454	SG	CYS	A .	852			9.223	18.678	1.00	57.85
	1455	N	SER	A	853		2.440	7.847	19.053	1.00	55.45
20	1456	CA	SER	A	853	-	2.109	7.052	17.847	1.00	53.09
	1457	С	SER	_ A	85		-1.610	6.346	17.942	1.00	53.22
	1458	0	SER	_ A	85		-0.601	7.133	19.686	1.00	+
	1459	СВ	SER	A	85	-+-	-3.308	7.133	21.038	1.00	
25	1460	OG	SER	A	85	3	-3.480	 	16.719	1.00	
	1461	N	ARG	A	85	4	-2.304	7.172	15.500	1.00	
	1462	CA	ARG	A	85	54	-1.924	6.462	14.967	1.00	
30	1463	С	ARG	A	85	54	-0.564	6.962	14.564	+-	
	1464	0	ARG	A	85	54	0.294	6.164		+	
	1465	СВ	ARG	A	8	54	-3.021	6.634	14.443	+	10.00
	1466	CG	ARG	A	8	54	-2.747	5.970	1 5 46	+	
35	1467	CD	ARG	Α	. 8	54	-2.985 	6.943	11.000	+	-
	1468	NE	ARG	A	8	54	-4.340	7.500		+	
	1469	CZ	ARG	P	. 8	54	-4.911	8.122		-	
40	1470	NH1	ARG	7	8	354	-4.261	8.290			
	1471	1110	ARG		٤ (٤	354	-6.153	8.567		-+	
	1472	_ 	ARG		3 4	355	-0.360	8.27	-+		
	1473		ARG		A {	855	0.860	8.92			
45	147	- 	ARG		A 1	855	2.106	8.45			
	147		ARG		A	855	3.180	8.32		- -	
	147		ARG		Α	855	0.713	10.43			
50	147		ARG		A	855	1.801	11.26			
20	147		ARG		Α	855	1.724	11.10			
	147	NE NE	ARG		Α	855	2.869	11.69	-+		
	148	07	ARG		Α	855	3.030	11.65			.00 29.
55	148	- NI 14	ARG		Α	855	2.130	11.0			.00 28.
	148		ARG	<u> </u>	A	855	4.085	12.2	19 10.0	28 1	.00 29.

		THREE-D	IMENSIONAL			CONTINUED)	N COMPLE	X WITH DI	——— НТ	
	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
5	1483	N	PHE	A	856	1.973	8.239	16.609	1.00	33.30
	1484	CA	PHE	Α	856	3.086	7.786	17.428	1.00	31.21
	1485	С	PHE	Α	856	3.308	6.290	17.254	1.00	30.61
10	1486	0	PHE	Α	856	4.420	5.803	17.424	1.00	30.75
	1487	СВ	PHE	Α	856	2.846	8.128	18.895	1.00	30.24
	1488	CG	PHE	Α	856	4.058	7.977	19.755	1.00	30.06
	1489	CD1	PHE	Α	856	5.022	8.972	19.787	1.00	29.34
15	1490	CD2	PHE	Α	856	4.241	6.829	20.536	1.00	29.33
	1491	CE1	PHE	Α	856	6.150	8.832	20.580	1.00	29.36
	1492	CE2	PHE	Α	856	5.364	6.676	21.335	1.00	28.86
20	1493	CZ	PHE	Α	856	6.325	7.680	21.357	1.00	29.62
	1494	N	TYR	Α	857	2.258	5.543	16.943	1.00	29.79
	1495	CA	TYR	Α	857	2.446	4.118	16.725	1.00	29.79
0.5	1496	С	TYR	Α	857	3.206	3.929	15.419	1.00	29.44
25	1497	0	TYR	Α	857	4.135	3.125	15.371	1.00	29.44
	1498	СВ	TYR	Α	857	1.116	3.365	16.660	1.00	30.78
	1499	CG	TYR	Α	857	1.254	1.871	16.396	1.00	32.21
30	1500	CD1	TYR	Α	857	1.425	0.972	17.442	1.00	32.75
	1501	CD2	TYR	Α	857	1.208	1.362	15.098	1.00	33.36
	1502	CE1	TYR	Α	857	1.548	-0.401	17.215	1.00	34.60
35	1503	CE2	TYR	Α	857	1.331	-0.011	14.854	1.00	34.67
	1504	CZ	TYR	Α	857	1.503	-0.887	15.918	1.00	35.61
	1505	ОН	TYR	Α	857	1.652	-2.244	15.697	1.00	36.96
	1506	N	GLN	Α	858	2.847	4.685	14.376	1.00	28.32
40	1507	CA	GLN	Α	858	3.533	4.537	13.087	1.00	28.06
	1508	С	GLN	Α	858	4.967	5.077	13.037	1.00	26.56
	1509	0	GLN	Α	858	5.820	4.525	12.332	1.00	26.58
45	1510	СВ	GLN	Α	858	2.675	5.020	11.890	1.00	28.98
	1511	CG	GLN	Α	858	1.970	6.384	12.029	1.00	31.65
	1512	CD	GLN	Α	858	0.781	6.569	11.059	1.00	32.26
	1513	OE1	GLN	Α	858	0.385	7.700	10.724	1.00	32.11
50	1514	NE2	GLN	Α	858	0.210	5.458	10.617	1.00	32.79
	1515	N	LEU	Α	859	5.266	6.101	13.825	1.00	24.64
	1516	CA	LEU	Α	859	6.622	6.632	13.832	1.00	22.82
55	1517	С	LEU	Α	859	7.545	5.705	14.613	1.00	20.92
	1518	0	LEU	Α	859	8.694	5.486	14.222	1.00	20.35
į	1519	СВ	LEU	Α	859	6.675	8.067	14.395	1.00	23.93

			TUDEED	INTENICIONAL			ontinued)	COMPLEX	WITH DH	 Г	
1520											ATOM
1520	5									1.00	23.18
1521 CD1	J										23.42
1522		L									22.30
1524		1522									
1524	10	1523									
1525		1524									
1526											
1528	15	1526		 							
1528 OG1 IHH A 860 7.314 5.196 18.734 1.00 18.12 1530 N LYS A 861 7.040 2.600 14.851 1.00 21.02 1531 CA LYS A 861 7.046 1.411 14.034 1.00 21.02 1532 C LYS A 861 8.040 1.642 12.895 1.00 21.28 1533 O LYS A 861 8.781 0.750 12.510 1.00 21.01 1534 CB LYS A 861 5.649 1.178 13.475 1.00 23.82 1535 CG LYS A 861 5.649 1.178 13.475 1.00 23.82 1536 CD LYS A 861 5.015 -1.106 14.321 1.00 28.40 1537 CE LYS A 861 5.015 -1.106 14.321 1.00 28.40 1538 NZ LYS A 861 4.924 -2.587 13.922 1.00 30.14 1538 NZ LYS A 861 4.542 3.514 15.050 1.00 31.53 1539 N LEU A 862 8.093 2.863 12.389 1.00 21.49 1540 CA LEU A 862 9.021 3.192 11.311 1.00 21.32 1541 C LEU A 862 10.438 3.181 11.854 1.00 21.35 1542 O LEU A 862 10.438 3.181 11.854 1.00 21.35 1543 CB LEU A 862 10.022 4.563 8.622 1.00 22.14 1544 CG LEU A 862 10.022 4.563 8.622 1.00 22.72 1546 CD2 LEU A 862 10.022 4.563 8.622 1.00 2.72 1547 N LEU A 862 10.022 4.563 8.622 1.00 2.72 1548 CA LEU A 863 11.906 3.625 13.749 1.00 18.08 1550 O LEU A 863 11.906 3.625 13.749 1.00 18.08 1551 CB LEU A 863 11.827 4.423 15.040 1.00 18.08 1552 CG LEU A 863 11.990 5.931 14.863 1.00 18.02 1553 CD1 LEU A 863 11.990 5.931 14.863 1.00 18.02 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33	13	1527	СВ		 						
1529 CG2 THIN A 860 7.040 2.600 14.851 1.00 21.02		1528		ļ				 			
1530 N		1529	CG2								
1531 CA LYS A 861 8.040 1.642 12.895 1.00 21.28 1533 O LYS A 861 8.781 0.750 12.510 1.00 21.01 1533 O LYS A 861 8.781 0.750 12.510 1.00 21.01 1534 CB LYS A 861 5.649 1.178 13.475 1.00 23.82 1535 CG LYS A 861 5.375 -0.268 13.110 1.00 26.71 1536 CD LYS A 861 5.015 -1.106 14.321 1.00 28.40 1537 CE LYS A 861 4.924 -2.587 13.922 1.00 30.14 1538 NZ LYS A 861 4.542 -3.514 15.050 1.00 31.53 1539 N LEU A 862 8.093 2.863 12.389 1.00 21.49 1540 CA LEU A 862 9.021 3.192 11.311 1.00 21.32 1541 C LEU A 862 10.438 3.181 11.854 1.00 21.45 1542 O LEU A 862 10.438 3.181 11.854 1.00 21.45 1543 CB LEU A 862 8.713 4.577 10.731 1.00 22.14 1543 CB LEU A 862 9.816 5.281 9.921 1.00 22.14 1545 CD1 LEU A 862 9.816 5.281 9.921 1.00 21.98 1546 CD2 LEU A 862 10.022 4.563 8.622 1.00 22.72 1546 CD2 LEU A 863 10.596 3.602 13.105 1.00 20.75 1548 CA LEU A 863 10.596 3.602 13.105 1.00 20.75 1548 CA LEU A 863 11.806 3.625 13.749 1.00 18.90 1549 C LEU A 863 13.676 1.984 13.895 1.00 18.08 1550 O LEU A 863 13.676 1.984 13.895 1.00 17.06 1551 CB LEU A 863 13.676 1.984 13.895 1.00 17.06 1552 CG LEU A 863 11.827 4.423 15.040 1.00 18.08 1550 CD LEU A 863 11.827 4.423 15.040 1.00 18.78 1552 CG LEU A 863 11.800 5.931 14.863 1.00 18.78 1555 N ASP A 864 11.995 1.008 14.662 1.00 19.28	20	1530	N	 	 						
1532 C LYS A 861 8.781 0.750 12.510 1.00 21.01 1533 O LYS A 861 5.649 1.178 13.475 1.00 23.82 1535 CG LYS A 861 5.649 1.178 13.475 1.00 23.82 1536 CD LYS A 861 5.015 -1.106 14.321 1.00 28.40 1537 CE LYS A 861 5.015 -1.106 14.321 1.00 28.40 1538 NZ LYS A 861 4.924 -2.587 13.922 1.00 30.14 1539 N LEU A 862 8.093 2.863 12.389 1.00 21.49 1540 CA LEU A 862 9.021 3.192 11.311 1.00 21.32 1541 C LEU A 862 10.438 3.181 11.854 1.00 21.32 1542 O LEU A 862 11.386 2.884 11.133 1.00 22.30 1543 CB LEU A 862 8.713 4.577 10.731 1.00 22.14 1544 CG LEU A 862 9.816 5.281 9.921 1.00 21.98 1545 CD1 LEU A 862 9.456 6.726 9.670 1.00 22.72 1546 CD2 LEU A 863 10.966 3.602 13.105 1.00 20.71 1548 CA LEU A 863 11.906 3.602 13.105 1.00 20.71 1549 C LEU A 863 11.906 3.602 13.105 1.00 20.71 1549 C LEU A 863 11.906 3.625 13.749 1.00 18.08 1550 O LEU A 863 11.827 4.423 15.040 1.00 18.08 1551 CB LEU A 863 11.827 4.423 15.040 1.00 18.08 1552 CG LEU A 863 11.807 5.931 14.863 1.00 18.02 1553 CD1 LEU A 863 11.807 5.931 14.863 1.00 18.02 1554 CD2 LEU A 863 11.807 5.931 14.863 1.00 18.02 1555 N ASP A 864 11.995 5.931 14.863 1.00 18.63		1531	CA	LYS	A	├ ──┤					
1533 O LYS A 861 5.649 1.178 13.475 1.00 23.82 1534 CB LYS A 861 5.649 1.178 13.475 1.00 23.82 1535 CG LYS A 861 5.375 -0.268 13.110 1.00 28.40 1536 CD LYS A 861 5.015 -1.106 14.321 1.00 28.40 1537 CE LYS A 861 4.924 -2.587 13.922 1.00 30.14 1538 NZ LYS A 861 4.542 -3.514 15.050 1.00 31.53 1539 N LEU A 862 8.093 2.863 12.389 1.00 21.49 1540 CA LEU A 862 9.021 3.192 11.311 1.00 21.32 1541 C LEU A 862 10.438 3.181 11.854 1.00 21.15 1542 O LEU A 862 11.386 2.884 11.133 1.00 22.30 1543 CB LEU A 862 8.713 4.577 10.731 1.00 22.14 1544 CG LEU A 862 9.816 5.281 9.921 1.00 21.98 1545 CD1 LEU A 862 9.456 6.726 9.670 1.00 22.72 1546 CD2 LEU A 862 9.456 6.726 9.670 1.00 22.58 1547 N LEU A 863 10.596 3.602 13.105 1.00 20.71 1548 CA LEU A 863 11.906 3.625 13.749 1.00 18.90 1550 O LEU A 863 11.890 5.931 14.863 1.00 18.08 1550 CG LEU A 863 11.897 4.423 15.040 1.00 18.08 1551 CB LEU A 863 11.897 5.931 14.863 1.00 18.78 1552 CG LEU A 863 11.890 5.931 14.863 1.00 18.02 1554 CD2 LEU A 863 11.890 5.931 14.863 1.00 18.02 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33		1532	С	LYS	Α	 		 			
1534 CB LYS A 861 5.375 -0.268 13.110 1.00 26.71 1536 CD LYS A 861 5.015 -1.106 14.321 1.00 28.40 1537 CE LYS A 861 4.924 -2.587 13.922 1.00 30.14 1538 NZ LYS A 861 4.542 -3.514 15.050 1.00 31.53 1539 N LEU A 862 8.093 2.863 12.389 1.00 21.49 1540 CA LEU A 862 9.021 3.192 11.311 1.00 21.32 1541 C LEU A 862 10.438 3.181 11.854 1.00 21.15 1542 O LEU A 862 11.386 2.884 11.133 1.00 22.30 1543 CB LEU A 862 8.713 4.577 10.731 1.00 22.14 1544 CG LEU A 862 9.816 5.281 9.921 1.00 21.98 1545 CD1 LEU A 862 9.816 5.281 9.921 1.00 21.98 1546 CD2 LEU A 862 9.456 6.726 9.670 1.00 22.72 1546 CD2 LEU A 863 10.596 3.602 13.105 1.00 20.71 1548 CA LEU A 863 10.596 3.602 13.105 1.00 20.71 1549 C LEU A 863 11.906 3.625 13.749 1.00 18.90 1550 O LEU A 863 11.827 4.423 15.040 1.00 18.08 1551 CB LEU A 863 11.827 4.423 15.040 1.00 18.08 1552 CG LEU A 863 11.890 5.931 14.863 1.00 18.78 1553 CD1 LEU A 863 12.103 6.545 16.230 1.00 19.67 1554 CD2 LEU A 863 13.049 6.291 13.944 1.00 16.59 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33	05	1533	0	LYS	Α	1		<u> </u>			
1535 CG LYS A 861 5.015 -1.106 14.321 1.00 28.40 1537 CE LYS A 861 4.924 -2.587 13.922 1.00 30.14 1538 NZ LYS A 861 4.542 -3.514 15.050 1.00 31.53 1539 N LEU A 862 8.093 2.863 12.389 1.00 21.49 1540 CA LEU A 862 9.021 3.192 11.311 1.00 21.32 1541 C LEU A 862 10.438 3.181 11.854 1.00 21.15 1542 O LEU A 862 11.386 2.884 11.133 1.00 22.30 1543 CB LEU A 862 9.816 5.281 9.921 1.00 22.14 40 1544 CG LEU A 862 9.816 5.281 9.921 1.00 22.14 1545 CD1 LEU A 862 9.816 5.281 9.921 1.00 22.72 1546 CD2 LEU A 862 9.456 6.726 9.670 1.00 22.72 1547 N LEU A 863 10.596 3.602 13.105 1.00 20.71 1548 CA LEU A 863 11.906 3.625 13.749 1.00 18.90 1550 O LEU A 863 12.462 2.218 14.004 1.00 18.08 1550 C LEU A 863 13.676 1.984 13.895 1.00 17.06 1551 CB LEU A 863 11.897 4.423 15.040 1.00 18.78 1552 CG LEU A 863 11.890 5.931 14.863 1.00 18.78 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33	25	1534	СВ	LYS	A	861					
1536 CD LYS A 861 3.013 1.100 30.14 1537 CE LYS A 861 4.924 -2.587 13.922 1.00 30.14 1538 NZ LYS A 861 4.542 -3.514 15.050 1.00 31.53 1539 N LEU A 862 8.093 2.863 12.389 1.00 21.49 1540 CA LEU A 862 9.021 3.192 11.311 1.00 21.32 1541 C LEU A 862 10.438 3.181 11.854 1.00 21.15 1542 O LEU A 862 11.386 2.884 11.133 1.00 22.30 1543 CB LEU A 862 8.713 4.577 10.731 1.00 22.14 40 1544 CG LEU A 862 9.816 5.281 9.921 1.00 21.98 1545 CD1 LEU A 862 9.456 6.726 9.670 1.00 22.72 1546 CD2 LEU A 862 9.456 6.726 9.670 1.00 22.72 1548 CA LEU A 863 10.596 3.602 13.105 1.00 20.71 1549 C LEU A 863 11.906 3.625 13.749 1.00 18.90 1550 O LEU A 863 11.890 3.625 13.749 1.00 18.08 1551 CB LEU A 863 11.827 4.423 15.040 1.00 18.78 1552 CG LEU A 863 11.890 5.931 14.863 1.00 18.02 1553 CD1 LEU A 863 11.890 5.931 14.863 1.00 18.02 1554 CD2 LEU A 863 13.049 6.291 13.944 1.00 16.59 1555 N ASP A 864 11.592 1.307 14.436 1.00 19.28		1535	CG	LYS	Α	861		 			
1537 CE LYS A 861 4.542 -3.514 15.050 1.00 31.53 1539 N LEU A 862 8.093 2.863 12.389 1.00 21.49 1540 CA LEU A 862 9.021 3.192 11.311 1.00 21.32 1541 C LEU A 862 10.438 3.181 11.854 1.00 21.15 1542 O LEU A 862 11.386 2.884 11.133 1.00 22.30 1543 CB LEU A 862 8.713 4.577 10.731 1.00 22.14 1544 CG LEU A 862 9.816 5.281 9.921 1.00 21.98 1545 CD1 LEU A 862 10.022 4.563 8.622 1.00 22.72 1546 CD2 LEU A 862 9.456 6.726 9.670 1.00 22.58 1547 N LEU A 863 10.596 3.602 13.105 1.00 20.71 1548 CA LEU A 863 11.906 3.625 13.749 1.00 18.90 1550 O LEU A 863 13.676 1.984 13.895 1.00 17.06 1550 CB LEU A 863 13.676 1.984 13.895 1.00 17.06 1552 CG LEU A 863 11.827 4.423 15.040 1.00 18.78 1552 CG LEU A 863 12.103 6.545 16.230 1.00 18.78 1554 CD2 LEU A 863 13.049 6.291 13.944 1.00 16.59 1555 N ASP A 864 11.592 1.307 14.436 1.00 19.28		1536	CD	LYS	A	861		 			
1538 NZ LYS A 861 4.342 5.61 1.00 21.49 1539 N LEU A 862 8.093 2.863 12.389 1.00 21.49 1540 CA LEU A 862 9.021 3.192 11.311 1.00 21.32 1541 C LEU A 862 10.438 3.181 11.854 1.00 21.15 1542 O LEU A 862 11.386 2.884 11.133 1.00 22.30 1543 CB LEU A 862 8.713 4.577 10.731 1.00 22.14 40 1544 CG LEU A 862 9.816 5.281 9.921 1.00 21.98 1545 CD1 LEU A 862 10.022 4.563 8.622 1.00 22.72 1546 CD2 LEU A 862 9.456 6.726 9.670 1.00 22.72 1547 N LEU A 863 10.596 3.602 13.105 1.00 20.71 1548 CA LEU A 863 11.906 3.625 13.749 1.00 18.08 1550 O LEU A 863 13.676 1.984 13.895 1.00 17.06 1551 CB LEU A 863 11.827 4.423 15.040 1.00 18.78 1552 CG LEU A 863 11.890 5.931 14.863 1.00 18.02 1553 CD1 LEU A 863 13.049 6.291 13.944 1.00 16.59 1554 CD2 LEU A 863 13.049 6.291 13.944 1.00 16.59 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33	30	1537	CE	LYS	A	861		ļ — — — —			
1539 N LEU A 862 0.035 25.00 11.311 1.00 21.32 1540 CA LEU A 862 9.021 3.192 11.311 1.00 21.32 1541 C LEU A 862 10.438 3.181 11.854 1.00 21.15 1542 O LEU A 862 11.386 2.884 11.133 1.00 22.30 1543 CB LEU A 862 8.713 4.577 10.731 1.00 22.14 1544 CG LEU A 862 9.816 5.281 9.921 1.00 21.98 1545 CD1 LEU A 862 10.022 4.563 8.622 1.00 22.72 1546 CD2 LEU A 862 9.456 6.726 9.670 1.00 22.58 1547 N LEU A 863 10.596 3.602 13.105 1.00 20.71 1548 CA LEU A 863 11.906 3.625 13.749 1.00 18.90 1549 C LEU A 863 12.462 2.218 14.004 1.00 18.08 1550 O LEU A 863 13.676 1.984 13.895 1.00 17.06 1551 CB LEU A 863 11.827 4.423 15.040 1.00 18.78 1552 CG LEU A 863 11.890 5.931 14.863 1.00 18.02 1553 CD1 LEU A 863 12.103 6.545 16.230 1.00 19.67 1554 CD2 LEU A 863 13.049 6.291 13.944 1.00 16.59 1555 N ASP A 864 11.592 1.307 14.436 1.00 19.28		1538	NZ	LYS	A	861					ļ
1540 CA LEU A 862 9.021 0.100 21.15 1541 C LEU A 862 10.438 3.181 11.854 1.00 21.15 1542 O LEU A 862 11.386 2.884 11.133 1.00 22.30 1543 CB LEU A 862 8.713 4.577 10.731 1.00 22.14 40 1544 CG LEU A 862 9.816 5.281 9.921 1.00 21.98 1545 CD1 LEU A 862 10.022 4.563 8.622 1.00 22.72 1546 CD2 LEU A 862 9.456 6.726 9.670 1.00 22.58 1547 N LEU A 863 10.596 3.602 13.105 1.00 20.71 1548 CA LEU A 863 11.906 3.625 13.749 1.00 18.90 1549 C LEU A 863 12.462 2.218 14.004 1.00 18.08 1550 O LEU A 863 13.676 1.984 13.895 1.00 17.06 1551 CB LEU A 863 11.827 4.423 15.040 1.00 18.78 1552 CG LEU A 863 11.890 5.931 14.863 1.00 18.02 1553 CD1 LEU A 863 12.103 6.545 16.230 1.00 19.67 1554 CD2 LEU A 863 13.049 6.291 13.944 1.00 16.59 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33		1539	N	LEU	A	862	8.093	 			ļ <u>-</u>
1541 C LEU A 862 10.435 3.107 11.03 1.00 22.30 1542 O LEU A 862 11.386 2.884 11.133 1.00 22.30 1543 CB LEU A 862 8.713 4.577 10.731 1.00 22.14 1544 CG LEU A 862 9.816 5.281 9.921 1.00 21.98 1545 CD1 LEU A 862 10.022 4.563 8.622 1.00 22.72 1546 CD2 LEU A 862 9.456 6.726 9.670 1.00 22.58 1547 N LEU A 863 10.596 3.602 13.105 1.00 20.71 1548 CA LEU A 863 11.906 3.625 13.749 1.00 18.90 1549 C LEU A 863 12.462 2.218 14.004 1.00 18.08 1550 O LEU A 863 13.676 1.984 13.895 1.00 17.06 1551 CB LEU A 863 11.827 4.423 15.040 1.00 18.78 1552 CG LEU A 863 12.103 6.545 16.230 1.00 19.67 1554 CD2 LEU A 863 13.049 6.291 13.944 1.00 16.59 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33	0.5	1540	CA	LEU	A	862	9.021	 			
1542	35	1541	С	LEU	Α	862	10.438	3.181	<u> </u>		
1543 CB LEU A 862 9.816 5.281 9.921 1.00 21.98 1544 CG LEU A 862 10.022 4.563 8.622 1.00 22.72 1546 CD2 LEU A 862 9.456 6.726 9.670 1.00 22.58 1547 N LEU A 863 10.596 3.602 13.105 1.00 20.71 1548 CA LEU A 863 11.906 3.625 13.749 1.00 18.90 1549 C LEU A 863 12.462 2.218 14.004 1.00 18.08 1550 O LEU A 863 13.676 1.984 13.895 1.00 17.06 1551 CB LEU A 863 11.827 4.423 15.040 1.00 18.78 1552 CG LEU A 863 11.890 5.931 14.863 1.00 18.02 1553 CD1 LEU A 863 12.103 6.545 16.230 1.00 19.67 1554 CD2 LEU A 863 13.049 6.291 13.944 1.00 16.59 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33		1542	0	LEU	Α	862		2.884		 	
1544 CG LEU A 862 10.022 4.563 8.622 1.00 22.72 1546 CD2 LEU A 862 9.456 6.726 9.670 1.00 22.58 1547 N LEU A 863 10.596 3.602 13.105 1.00 20.71 1548 CA LEU A 863 11.906 3.625 13.749 1.00 18.90 1549 C LEU A 863 12.462 2.218 14.004 1.00 18.08 1550 O LEU A 863 13.676 1.984 13.895 1.00 17.06 1551 CB LEU A 863 11.827 4.423 15.040 1.00 18.78 1552 CG LEU A 863 11.890 5.931 14.863 1.00 18.02 1553 CD1 LEU A 863 12.103 6.545 16.230 1.00 19.67 1554 CD2 LEU A 863 13.049 6.291 13.944 1.00 16.59 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33		1543	СВ	LEU	A	862	8.713	4.577		ļ	<u> </u>
1545 CD1 LEU A 862 9.456 6.726 9.670 1.00 22.58 1547 N LEU A 863 10.596 3.602 13.105 1.00 20.71 1548 CA LEU A 863 11.906 3.625 13.749 1.00 18.90 1549 C LEU A 863 12.462 2.218 14.004 1.00 18.08 1550 O LEU A 863 13.676 1.984 13.895 1.00 17.06 1551 CB LEU A 863 11.827 4.423 15.040 1.00 18.78 1552 CG LEU A 863 11.890 5.931 14.863 1.00 18.02 1553 CD1 LEU A 863 12.103 6.545 16.230 1.00 19.67 1554 CD2 LEU A 863 13.049 6.291 13.944 1.00 16.59 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33	40	1544	CG	LEU	Α	862	9.816	5.281		ļ	
1546 CD2 LEU A 863 10.596 3.602 13.105 1.00 20.71 1548 CA LEU A 863 11.906 3.625 13.749 1.00 18.90 1549 C LEU A 863 12.462 2.218 14.004 1.00 18.08 1550 O LEU A 863 13.676 1.984 13.895 1.00 17.06 1551 CB LEU A 863 11.827 4.423 15.040 1.00 18.78 1552 CG LEU A 863 11.890 5.931 14.863 1.00 18.02 1553 CD1 LEU A 863 12.103 6.545 16.230 1.00 19.67 1554 CD2 LEU A 863 13.049 6.291 13.944 1.00 16.59 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33		1545	CD1	LEU	A	862	10.022	ļ			
1547 N LEU A 863 11.906 3.625 13.749 1.00 18.90 1549 C LEU A 863 12.462 2.218 14.004 1.00 18.08 1550 O LEU A 863 13.676 1.984 13.895 1.00 17.06 1551 CB LEU A 863 11.827 4.423 15.040 1.00 18.78 1552 CG LEU A 863 11.890 5.931 14.863 1.00 18.02 1553 CD1 LEU A 863 12.103 6.545 16.230 1.00 19.67 1554 CD2 LEU A 863 13.049 6.291 13.944 1.00 16.59 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33		1546	CD2	LEU	Α	862	9.456	6.726	<u> </u>	<u> </u>	
1548 CA LEU A 863 11.906 3.023 10.745 1.00 18.08 1549 C LEU A 863 12.462 2.218 14.004 1.00 18.08 1550 O LEU A 863 13.676 1.984 13.895 1.00 17.06 1551 CB LEU A 863 11.827 4.423 15.040 1.00 18.78 1552 CG LEU A 863 11.890 5.931 14.863 1.00 18.02 1553 CD1 LEU A 863 12.103 6.545 16.230 1.00 19.67 1554 CD2 LEU A 863 13.049 6.291 13.944 1.00 16.59 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33		1547	N	LEU	Α	863	10.596	3.602	13.105	1.00	
1549 C LEU A 863 13.676 1.984 13.895 1.00 17.06 1550 O LEU A 863 13.676 1.984 13.895 1.00 17.06 1551 CB LEU A 863 11.827 4.423 15.040 1.00 18.78 1552 CG LEU A 863 11.890 5.931 14.863 1.00 18.02 1553 CD1 LEU A 863 12.103 6.545 16.230 1.00 19.67 1554 CD2 LEU A 863 13.049 6.291 13.944 1.00 16.59 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33	45	1548	CA	LEU	Α	863	11.906	3.625		 	
1550 CB LEU A 863 11.827 4.423 15.040 1.00 18.78 1551 CB LEU A 863 11.827 4.423 15.040 1.00 18.78 1552 CG LEU A 863 11.890 5.931 14.863 1.00 18.02 1553 CD1 LEU A 863 12.103 6.545 16.230 1.00 19.67 1554 CD2 LEU A 863 13.049 6.291 13.944 1.00 16.59 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33		1549	С	LEU	Α	863	12.462	2.218	 	1.00	
1551 CB LEU A 863 11.890 5.931 14.863 1.00 18.02 1552 CG LEU A 863 12.103 6.545 16.230 1.00 19.67 1554 CD2 LEU A 863 13.049 6.291 13.944 1.00 16.59 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33		1550	0	LEU	Α	863	13.676	1.984	13.895	1.00	
1552 CG LEU A 863 12.103 6.545 16.230 1.00 19.67 1554 CD2 LEU A 863 13.049 6.291 13.944 1.00 16.59 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33	50	1551	СВ	LEU	Α	863	11.827	4.423			+
1553 CD1 LEU A 863 12.100 0.010 13.944 1.00 16.59 1554 CD2 LEU A 863 13.049 6.291 13.944 1.00 16.59 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33		1552	CG	LEU	Α	863	11.890	5.931	 	 	
1554 CD2 LEO A 868 13.545 CD2 1.307 14.436 1.00 18.33 1555 N ASP A 864 11.592 1.307 14.436 1.00 18.33		1553	CD1	LEU	Α	863	12.103	6.545	16.230	1.00	
1555 N ASP A 864 11.592 1.307 14.430 1.00 18.30		1554	CD2	LEU	Α	863	13.049	6.291	13.944	1.00	16.59
1556 CA ASP A 864 11.985 -0.088 14.642 1.00 19.28	55	1555	N	ASP	А	864	11.592	1.307	14.436	1.00	
		1556	CA	ASP	А	864	11.985	-0.088	14.642	1.00	19.28

		THREE-D	IMENSIONAL	COO	RDINAT	ES OF AR II	N COMPLE	X WITH DI	łT	
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	АТОМ
5	1557	С	ASP	4	864	12.467	-0.692	13.321	1.00	19.06
	1558	0	ASP	A	864	13.377	-1.519	13.298	1.00	18.82
	1559	СВ	ASP	A	864	10.797	-0.917	15.143	1.00	19.27
10	1560	CG	ASP	Α	864	10.525	-0.727	16.620	1.00	19.92
	1561	OD1	ASP	Α	864	11.256	0.045	17.271	1.00	20.94
	1562	OD2	ASP	Α	864	9.577	-1.364	17.116	1.00	19.39
	1563	N	SER	Α	865	11.847	-0.263	12.222	1.00	19.90
15	1564	CA	SER	Α	865	12.202	-0.764	10.894	1.00	19.17
	1565	С	SER	Α	865	13.634	-0.507	10.489	1.00	18.01
	1566	0	SER	Α	865	14.213	-1.294	9.765	1.00	18.93
20	1567	СВ	SER	Α	865	11.226	-0.289	9.798	1.00	18.59
	1568	OG	SER	Α	865	11.167	1.123	9.613	1.00	19.91
	1569	N	VAL	Α	866	14.257	0.535	11.004	1.00	17.08
ar.	1570	CA	VAL	Α	866	15.619	0.747	10.589	1.00	15.20
25	1571	С	VAL	Α	866	16.564	-0.260	11.194	1.00	14.83
	1572	0	VAL	Α	866	17.625	-0.518	10.641	1.00	14.66
	1573	СВ	VAL	Α	866	16.093	2.211	10.783	1.00	15.01
30	1574	CG1	VAL	Α	866	14.982	3.081	11.320	1.00	13.81
	1575	CG2	VAL	Α	866	17.344	2.280	11.574	1.00	13.41
	1576	N	GLN	Α	867	16.168	-0.873	12.302	1.00	15.12
35	1577	CA	GLN	Α	867	17.031	-1.849	12.977	1.00	15.64
33	1578	С	GLN	Α	867	17.358	-3.143	12.233	1.00	14.54
	1579	0	GLN	Α	867	18.487	-3.594	12.271	1.00	15.92
	1580	СВ	GLN	Α	867	16.508	-2.155	14.374	1.00	16.10
40	1581	CG	GLN	Α	867	16.526	-0.968	15.315	1.00	16.35
	1582	CD	GLN	Α	867	17.910	-0.474	15.672	1.00	17.91
	1583	OE1	GLN	Α	867	18.924	-1.175	15.510	1.00	17.76
45	1584	NE2	GLN	Α	867	17.958	0.750	16.201	1.00	17.53
	1585	N	PRO	A	868	16.364	-3.809	11.634	1.00	14.35
	1586	CA	PRO	Α	868	16.630	-5.040	10.886	1.00	13.73
	1587	С	PRO	Α	868	17.500	-4.704	9.674	1.00	13.45
50	1588	0	PRO	Α	868	18.341	-5.497	9.254	1.00	14.77
	1589	СВ	PRO	Α	868	15.232	-5.465	10.415	1.00	14.35
	1590	CG	PRO	Α	868	14.331	-4.928	11.438	1.00	14.42
55	1591	CD	PRO	Α	868	14.914	-3.555	11.696	1.00	15.17
	1592	N	ILE	Α	869	17.289	-3.514	9.113	1.00	13.49
	1593	CA	ILE	Α	869	18.043	-3.044	7.970	1.00	12.06
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		THREE-D	IMENSIONAL	COOF	RDINAT	ES OF AR IN	(COMPLE)	WITH DH	T	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	1594	С	ILE	Α	869	19.458	-2.818	8.411	1.00	11.70
	1595	0	ILE	Α	869	20.356	-3.302	7.755	1.00	13.01
	1596	СВ	ILE	Α	869	17.447	-1.740	7.358	1.00	12.53
10	1597	CG1	ILE	Α	869	15.998	-1.973	6.928	1.00	12.25
	1598	CG2	ILE	Α	869	18.272	-1.307	6.175	1.00	12.44
	1599	CD1	ILE	Α	869	15.258	-0.746	6.432	1.00	11.91
	1600	N	ALA	Α	870	19.655	-2.254	9.610	1.00	12.19
15	1601	CA	ALA	Α	870	21.007	-1.993	10.110	1.00	11.52
	1602	С	ALA	Α	870	21.758	-3.287	10.350	1.00	12.90
	1603	0	ALA	Α	870	22.955	-3.374	10.074	1.00	13.99
20	1604	СВ	ALA	Α	870	20.971	-1.189	11.375	1.00	10.62
	1605	N	ARG	Α	871	21.082	-4.262	10.962	1.00	14.67
	1606	CA	ARG	Α	871	21.659	-5.577	11.226	1.00	15.30
	1607	С	ARG	Α	871	22.119	-6.287	9.939	1.00	16.18
25	1608	0	ARG	Α	871	23.216	-6.846	9.897	1.00	16.90
	1609	СВ	ARG	Α	871	20.668	-6.465	11.970	1.00	16.99
	1610	CG	ARG	Α	871	21.317	-7.789	12.304	1.00	20.44
30	1611	CD	ARG	Α	871	20.552	-8.755	13.190	1.00	22.19
	1612	NE	ARG	Α	871	21.529	-9.736	13.678	1.00	25.05
	1613	CZ	ARG	Α	871	22.248	-9.581	14.785	1.00	24.87
	1614	NH1	ARG	Α	871	22.085	-8.513	15.553	1.00	26.86
35	1615	NH2	ARG	Α	871	23.221	-10.425	15.059	1.00	27.12
	1616	N	GLU	Α	872	21.300	-6.256	8.886	1.00	17.08
	1617	CA	GLU	Α	872	21.669	-6.874	7.595	1.00	17.70
40	1618	С	GLU	Α	872	22.961	-6.229	7.064	1.00	16.22
	1619	0	GLU	Α	872	23.826	-6.892	6.504	1.00	16.64
	1620	СВ	GLU	Α	872	20.546	-6.670	6.578	1.00	20.21
45	1621	CG	GLU	Α	872	20.070	-7.920	5.827	1.00	27.32
43	1622	CD	GLU	Α	872	19.041	-7.600	4.715	1.00	31.24
	1623	OE1	GLU	Α	872	19.199	-8.069	3.544	1.00	32.65
	1624	OE2	GLU	Α	872	18.068	-6.867	5.018	1.00	33.14
50	1625	N	LEU	Α	873	23.109	-4.927	7.254	1.00	15.48
	1626	CA	LEU	Α	873	24.304	-4.230	6.781	1.00	13.64
	1627	С	LEU	Α	873	25.489	-4.510	7.662	1.00	13.26
55	1628	0	LEU	Α	873	26.621	-4.541	7.185	1.00	12.91
-	1629	СВ	LEU	А	873	24.040	-2.718	6.664	1.00	13.09
	1630	CG	LEU	Α	873	22.957	-2.359	5.640	1.00	12.60

TABLE 8 (continued)

		THREE-D	IMENSIONA	L COO	RDINA	TES OF AR I	N COMPLE	X WITH D	ΗT	
	АТОМ	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	1631	CD1	LEU	Α	873	22.396	-0.985	5.856	1.00	13.12
	1632	CD2	LEU	Α	873	23.511	-2.529	4.229	1.00	12.29
	1633	N	HIS	Α	874	25.237	-4.688	8.960	1.00	14.96
10	1634	CA	HIS	Α	874	26.297	-5.011	9.935	1.00	15.73
	1635	С	HIS	Α	874	26.945	-6.342	9.549	1.00	16.66
	1636	0	HIS	Α	874	28.171	-6.454	9.539	1.00	16.68
46	1637	СВ	HIS	Α	874	25.735	-5.154	11.351	1.00	14.09
15	1638	CG	HIS	Α	874	25.513	-3.860	12.062	1.00	13.53
	1639	ND1	HIS	Α	874	24.365	-3.588	12.771	1.00	12.74
	1640	CD2	HIS	Α	874	26.303	-2.769	12.204	1.00	12.74
20	1641	CE1	HIS	Α	874	24.451	-2.397	13.313	1.00	11.45
;	1642	NE2	HIS	Α	874	25.616	-1.878	12.990	1.00	10.87
	1643	N	GLN	Α	875	26.122	-7.356	9.268	1.00	18.67
25	1644	CA	GLN	Α	875	26.635	-8.674	8.853	1.00	19.45
25	1645	С	GLN	Α	875	27.324	-8.521	7.491	1.00	18.37
	1646	0	GLN	Α	875	28.428	-9.022	7.294	1.00	18.65
	1647	СВ	GLN	Α	875	25.507	-9.726	8.779	1.00	21.56
30	1648	CG	GLN	Α	875	25.566	-10.875	9.864	1.00	25.76
	1649	CD	GLN	Α	875	26.681	-11.938	9.671	1.00	26.74
	1650	OE1	GLN	Α	875	27.871	-11.624	9.654	1.00	27.36
35	1651	NE2	GLN	Α	875	26.285	-13.204	9.589	1.00	27.93
	1652	N	PHE	Α	876	26.737	-7.724	6.597	1.00	18.47
	1653	CA	PHE	Α	876	27.338	-7.515	5.280	1.00	18.22
	1654	С	PHE	Α	876	28.689	-6.871	5.403	1.00	17.76
40	1655	0	PHE	Α	876	29.687	-7.412	4.920	1.00	17.95
	1656	СВ	PHE	Α	876	26.453	-6.641	4.377	1.00	19.25
	1657	CG	PHE	Α	876	26.966	-6.506	2.954	1.00	19.63
45	1658	CD1	PHE	Α	876	28.038	-5.675	2.657	1.00	18.97
	1659	CD2	PHE	Α	876	26.380	-7.226	1.917	1.00	19.90
	1660	CE1	PHE	Α	876	28.519	-5.558	1.343	1.00	20.30
	1661	CE2	PHE	Α	876	26.857	-7.113	0.597	1.00	20.70
50	1662	CZ	PHE	Α	876	27.926	-6.281	0.310	1.00	18.82
	1663	N	THR	Α	877	28.741	-5.732	6.086	1.00	17.85
	1664	CA	THR	Α	877	30.002	-5.024	6.215	1.00	17.77
55	1665	С	THR	Α	877	31.040	-5.884	6.900	1.00	17.52
	1666	0	THR	Α	877	32.208	-5.849	6.514	1.00	16.51
[1667	СВ	THR	Α	877	29.855	-3.641	6.915	1.00	18.24

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	ATOM	ATOM TYPE	IMENSIONAL RESIDUE	#	х	Υ	Z	occ	В	ATOM
5	1668	OG1	THR	Α	877	30.954	-2.808	6.525	1.00	19.13
	1669	CG2	THR	A	877	29.868	-3.765	8.444	1.00	17.92
1	1670	N	PHE	Α	878	30.634	-6.610	7.943	1.00	18.06
	1671	CA	PHE	A	878	31.559	-7.501	8.651	1.00	19.20
10	1672	С	PHE	Α	878	32.176	-8.567	7.725	1.00	18.91
ļ	1673	0	PHE	Α	878	33.400	-8.724	7.670	1.00	17.63
	1674	СВ	PHE	Α	878	30.863	-8.201	9.805	1.00	19.53
15	1675	CG	PHE	Α	878	31.731	-9.220	10.484	1.00	20.60
	1676	CD1	PHE	A	878	32.681	-8.829	11.414	1.00	19.88
	1677	CD2	PHE	A	878	31.623	-10.575	10.150	1.00	20.59
	1678	CE1	PHE	A	878	33.518	-9.774	12.008	1.00	22.10
20	1679	CE2	PHE	A	878	32.454	-11.532	10.733	1.00	20.21
	1680	CZ	PHE	A	878	33.403	-11.138	11.660	1.00	20.82
	1681	N	ASP	A	879	31.326	-9.268	6.973	1.00	19.57
25	1682	CA	ASP	A	879	31.800	-10.301	6.054	1.00	20.02
	1683	C	ASP	A	879	32.723	-9.654	5.044	1.00	20.35
	1684	0	ASP	A	879	33.802	-10.171	4.737	1.00	20.51
20	1685	СВ	ASP	A	879	30.622	-10.972	5.342	1.00	20.24
30	1686	CG	ASP	A	879	29.693	-11.724	6.307	1.00	22.04
	1687	OD1	ASP	A	879	30.122	-12.072	7.443	1.00	23.16
	1688	OD2	ASP	A	879	28.520	-11.968	5.937	1.00	21.98
35	1689	N	LEU	A	880	32.342	-8.472	4.580	1.00	20.77
	1690	CA	LEU	A	880	33.149	-7.775	3.596	1.00	20.33
	1691	C	LEU	A	880	34.529	-7.496	4.136	1.00	20.40
40	1692	0	LEU	A	880	35.513	-7.723	3.453	1.00	21.41
40	1693	СВ	LEU	A	880	32.484	-6.471	3.180	1.00	20.23
	1694	CG	LEU	A	880	33.089	-5.838	1.939	1.00	18.50
	1695	CD1	LEU	A	880	33.310	-6.886	0.855	1.00	19.38
45	1696	CD2	LEU	A	880	32.159	-4.762	1.477	1.00	18.07
	1697	N	LEU	A	881	34.602	-7.040	5.376	1.00	20.90
	1698	CA	LEU	A	881	35.882	-6.723	6.011	1.00	20.84
50	1699		LEU	A	881	36.818	-7.923	6.188	1.00	21.55
50	1700		LEU	A	881	38.055	-7.806	6.107	1.00	21.03
	1700	СВ	LEU	A	881	35.651	-6.055	7.364	1.00	19.23
	1701		LEU	A	881	36.989	-5.773	8.031	1.00	19.26
55	1702		LEU	A	88	37.662	-4.593	7.350	1.00	19.67
	1703		LEU	A		36.810	-5.514	9.500	1.00	18.92

		THREE-D	IMENSIONAL	L COO	RDINA	TES OF AR I	N COMPLE	X WITH DE	HT.	
	АТОМ	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	1705	N	ILE	Α	882	36.230	-9.063	6.492	1.00	22.39
	1706	CA	ILE	Α	882	37.013	-10.265	6.671	1.00	23.63
	1707	C	ILE	A	882	37.668	-10.643	5.340	1.00	24.48
10	1708	0	ILE	Α	882	38.859	-10.953	5.290	1.00	24.23
	1709	СВ	ILE	A	882	36.136	-11.390	7.248	1.00	23.00
	1710	CG1	ILE	Α	882	35.749	-11.006	8.675	1.00	22.91
4.0	1711 1	CG2	ILE	Α	882	36.855	-12.729	7.185	1.00	22.75
15	1712	CD1	ILE	Α	882	36.922	-10.412	9.491	1.00	22.94
	1713	N	LYS	Α	883	36.908	-10.541	4.256	1.00	25.73
	1714	CA	LYS	Α	883	37.441	-10.868	2.945	1.00	28.25
20	1715	С	LYS	Α	883	37.749	-9.657	2.061	1.00	30.08
	1716	0	LYS	Α	883	37.823	-9.790	0.841	1.00	30.81
	1717	СВ	LYS	Α	883	36.492	-11.820	2.211	1.00	27.47
25	1718	CG	LYS	Α	883	35.140	-11.240	1.932	1.00	27.17
23	1719	CD	LYS	Α	883	34.293	-12.163	1.109	1.00	27.60
	1720	CE	LYS	Α	883	32.926	-11.544	0.899	1.00	28.94
	1721	NZ	LYS	Α	883	32.036	-12.319	-0.003	1.00	29.99
30	1722	N	SER	Α	884	37.976	-8.495	2.672	1.00	32.24
	1723	CA	SER	Α	884	38.268	-7.260	1.938	1.00	33.66
	1724	С	SER	Α	884	39.500	-7.349	1.042	1.00	35.48
35	1725	0	SER	Α	884	39.491	-6.867	-0.087	1.00	35.08
	1726	СВ	SER	Α	884	38.440	-6.106	2.921	1.00	32.96
	1727	OG	SER	Α	884	39.466	-6.384	3.856	1.00	32.02
	1728	N	HIS	Α	885	40.557	-7.969	1.556	1.00	38.15
40	1729	CA	HIS	Α	885	41.815	-8.138	0.824	1.00	40.84
	1730	С	HIS	Α	885	41.682	-9.017	-0.432	1.00	41.12
	1731	0	HIS	Α	885	42.563	-9.010	-1.288	1.00	41.51
45	1732	СВ	HIS	Α	885	42.882	-8.688	1.789	1.00	43.70
	1733	CG	HIS	Α	885	44.032	-9.392	1.124	1.00	47.44
	1734	ND1	HIS	Α	885	45.172	-8.737	0.704	1.00	49.20
	1735	CD2	HIS	Α	885	44.240	-10.707	0.860	1.00	49.14
50	1736	CE1	HIS	Α	885	46.034	-9.615	0.217	1.00	49.74
	1737	NE2	HIS	Α	885	45.493	-10.818	0.300	1.00	50.17
	1738	N	MET	Α	886	40.586	-9.762	-0.544	1.00	41.14
55	1739	CA	MET	Α	886	40.372	-10.639	-1.686	1.00	41.17
	1740	С	MET	Α	886	39.455	-10.074	-2.761	1.00	40.68
	1741	0	MET	Α	886	39.535	-10.476	-3.923	1.00	41.66

		THREE-D	IMENSIONA	L COC	RDINA	TES OF AR	N COMPLE	X WITH D	HT	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	АТОМ
5	1742	СВ	MET	Α	886	39.859	-11.989	-1.212	1.00	43.08
	1743	CG	MET	Α	886	40.928	-12.860	-0.584	1.00	45.59
	1744	SD	MET	Α	886	40.175	-14.113	0.457	1.00	50.78
10	1745	CE	MET	Α	886	39.069	-14.971	-0.725	1.00	48.51
	1746	N	VAL	Α	887	38.542	-9.193	-2.370	1.00	39.25
	1747	CA	VAL	Α	887	37.637	-8.565	-3.333	1.00	37.55
4.5	1748	С	VAL	Α	887	38.145	-7.168	-3.702	1.00	37.08
15	1749	0	VAL	Α	887	37.484	-6.444	-4.442	1.00	37.26
	1750	СВ	VAL	Α	887	36.187	-8.459	-2.802	1.00	37.19
	1751	CG	VAL	Α	887	35.526	-9.828	-2.756	1.00	37.49
20	1752	CG2	VAL	Α	887	36.175	-7.817	-1.429	1.00	36.99
	1753	N	SER	Α	888	39.320	-6.809	-3.188	1.00	35.90
	1754	CA	SER	Α	888	39.955	-5.515	-3.437	1.00	35.05
25	1755	С	SER	Α	888	39.216	-4.290	-2.898	1.00	34.27
23	1756	0	SER	Α	888	39.402	-3.179	-3.396	1.00	34.78
	1757	СВ	SER	Α	888	40.231	-5.342	-4.929	1.00	35.29
	1758	OG	SER	Α	888	41.335	-6.133	-5.326	1.00	36.74
30	1759	N	VAL	Α	889	38.391	-4.485	-1.875	1.00	32.78
	1760	CA	VAL	Α	889	37.636	-3.386	-1.283	1.00	31.50
	1761	С	VAL	Α	889	38.410	-3.002	-0.064	1.00	31.36
35	1762	0	VAL	Α	889	38.855	-3.895	0.648	1.00	32.20
	1763	СВ	VAL	Α	889	36.244	-3.857	-0.772	1.00	30.79
	1764	CG1	VAL	Α	889	35.509	-2.729	-0.055	1.00	30.12
	1765	CG2	VAL	Α	889	35.410	-4.364	-1.903	1.00	30.08
40	1766	N	ASP	Α	890	38.692	-1.724	0.156	1.00	31.10
	1767	CA	ASP	Α	890	39.364	-1.428	1.414	1.00	30.80
	1768	С	ASP	Α	890	38.629	-0.493	2.326	1.00	28.51
45	1769	0	ASP	Α	890	37.889	0.379	1.889	1.00	27.96
	1770	СВ	ASP	Α	890	40.849	-1.093	1.296	1.00	33.89
	1771	CG	ASP	Α	890	41.720	-1.949	2.261	1.00	35.96
	1772	OD1	ASP	Α	890	41.248	-2.314	3.373	1.00	35.86
50	1773	OD2	ASP	Α	890	42.882	-2.260	1.901	1.00	37.33
	1774	N	PHE	Α	891	38.761	-0.782	3.610	1.00	26.20
	1775	CA	PHE	Α	891	38.096	-0.045	4.661	1.00	24.15
55	1776	С	PHE	Α	891	39.036	0.942	5.305	1.00	24.58
	1777	0	PHE	Α	891	40.150	0.574	5.695	1.00	25.30
Į.	1778	СВ	PHE	Α	891	37.595	-1.027	5.732	1.00	20.51

TABLE 8 (continued)

	THREE-D	IMENSIONA	L COO	RDINA	TES OF AR I	N COMPLE	X WITH DI	нт	
ATOM	ATOM TYPE	RESIDUE	#	X	Υ	Z	occ	В	ATOM
1779	CG	PHE	Α	891	36.501	-1.937	5.259	1.00	16.33
1780	CD1	PHE	Α	891	36.741	-2.892	4.288	1.00	15.42
1781	CD2	PHE	Α	891	35.230	-1.826	5.773	1.00	14.37
1782	CE1	PHE	Α	891	35.720	-3.730	3.832	1.00	13.60
1783	CE2	PHE	Α	891	34.220	-2.648	5.335	1.00	14.04
1784	CZ	PHE	Α	891	34.467	-3.607	4.353	1.00	13.43
1785	N	PRO	Α	892	38.603	2.209	5.437	1.00	23.93
1786	CA	PRO	Α	892	39.441	3.234	6.060	1.00	23.41
1787	С	PRO	Α	892	39.655	2.866	7.520	1.00	23.31
1788	0.	PRO	Α	892	38.887	2.090	8.078	1.00	22.72
1789	СВ	PRO	Α	892	38.582	4.485	5.940	1.00	23.21
1790	CG	PRO	Α	892	37.796	4.241	4.748	1.00	23.19
1791	CD	PRO	Α	892	37.376	2.811	4.909	1.00	22.44
1792	N	GLU	Α	893	40.619	3.517	8.157	1.00	24.55
1793	CA	GLU	Α	893	40.984	3.267	9.555	1.00	26.50
1794	С	GLU	Α	893	39.859	3.054	10.563	1.00	26.24
1795	0	GLU	Α	893	39.750	1.992	11.180	1.00	27.29
1796	СВ	GLU	Α	893	41.885	4.385	10.072	1.00	28.90
1797	CG	GLU	Α	893	42.329	4.192	11.509	1.00	33.98
1798	CD	GLU	Α	893	42.441	5.498	12.280	1.00	37.38
1799	OE1	GLU	Α	893	43.356	6.292	11.955	1.00	39.69
1800	OE2	GLU	Α	893	41.624	5.729	13.216	1.00	39.34
1801	N	MET	Α	894	39.052	4.078	10.782	1.00	26.07
1802	CA	MET	Α	894	37.968	3.974	11.744	1.00	26.28
1803	С	MET	Α	894	36.927	2.918	11.393	1.00	24.69
1804	0	MET	Α 8	394	36.337	2.311	12.287	1.00	24.64
1805	СВ	MET	Α	894	37.313	5.337	11.954	1.00	28.30
1806	CG	MET	Α	894	38.256	6.389	12.509	1.00	32.56
1807	SD	MET	Α	894	38.847	5.925	14.144	1.00	38.01
1808	CE	MET	Α	894	37.260	5.830	15.037	1.00	35.95
1809	N	MET.	Α 8	395	36.662	2.743	10.102	1.00	23.64
1810	CA	MET	Α	895	35.705	1.738	9.645	1.00	22.83
1811	С	MET	Α	895	36.171	0.328	10.032	1.00	22.26
1812	0	MET	Α	895	35.469	-0.383	10.714	1.00	22.26
1813	СВ	MET	Α	895	35.487	1.824	8.135	1.00	21.32
1814	CG	MET	Α	895	34.669	3.006	7.693	1.00	21.17
1815	SD	MET	Α	895	33.044	3.064	8.432	1.00	20.56

TABLE 8 (continued)

			IMENSIONAL			continued)	L COMPLEX	WITH DH	 Т	
						Y	Z	occ	В	ATOM
_	ATOM	ATOM TYPE	RESIDUE	#	X	32.088	2.305	7.205	1.00	22.81
5	1816	CE	MET	A	895		-0.066	9.616	1.00	22.06
	1817	N	ALA	A	896	37.362	-1.378	9.953	1.00	22.36
	1818	CA	ALA	_A	896	37.867	-1.581	11.460	1.00	22.96
10	1819	С	ALA	Α	896	37.914	-2.630	11.947	1.00	23.87
	1820	0	ALA	A	896	37.520	-1.588	9.350	1.00	22.56
	1821	СВ	ALA	_ A	896	39.243	-0.586	12.212	1.00	23.92
15	1822	N	GLU	A	897	38.377	-0.724	13.666	1.00	24.05
15	1823	CA	GLU	A	897	38.455	 	14.276	1.00	22.80
	1824	С	GLU	A	897	37.076	-0.901	15.094	1.00	22.95
	1825	0	GLU	A .	897	36.873	-1.774	14.313	1.00	25.98
20	1826	СВ	GLU		897	39.128	0.502		1.00	27.50
	1827	CG	GLU	A	897	39.288	0.390	15.841		27.88
	1828	CD	GLU	A	897	39.150	1.718	16.555	1.00	29.49
	1829	OE1	GLU	A	897	40.150	2.453	16.674	1.00	29.49
25	1830	OE2	GLU	A	897	38.036	2.018	17.013	1.00	
	1831	N	ILE	Α	898	36.129	-0.071	13.884	1.00	22.19
	1832	CA	ILE	Α	898	34.801	-0.178	14.459	1.00	21.88
30	1833	С	ILE	Α	898	34.080	-1.398	13.968	1.00	20.49
	1834	0 "	ILE	A	898	33.228	-1.917	14.656	1.00	21.90
	1835	СВ	ILE	A	898	33.940	1.077	14.196	1.00	21.85
	1836	CG1	ILE	A	898	34.438	2.233	15.043	1.00	22.82
35	1837	CG2	ILE	Α	898	32.478	0.836	14.587	1.00	22.66
	1838	CD1	ILE	A	898	33.490	3.390	15.019	1.00	23.11
	1839	N	ILE	Α	899	34.410	-1.860	12.781	1.00	19.59
40	1840	CA	iLE	Α	899	33.747	-3.027	12.248	1.00	19.42
	1841	С	ILE	Α	899	34.305	-4.338	12.832	1.00	19.02
	1842	0	ILE	Α	899	33.571	-5.300	12.982	1.00	19.98
	1843	СВ	ILE	Α	899	33.758	-3.014	10.706	1.00	19.12
45	1844	CG1	ILE	Α	899	32.987	-1.786	10.187	1.00	18.56
	1845	CG2	ILE	Α	899	33.095	-4.285	10.157	1.00	18.71
	1846	CD1	ILE	А	899	33.054	-1.588	8.683	1.00	15.05
50	1847	N	SER	Α	900	35.565	-4.344	13.233	1.00	+
	1848	CA	SER	Α	900	36.177	-5.518	13.822	1.00	19.74
	1849	С	SER	А	900	36.135	-5.502	15.355		
	1850	0	SER	Α	900	36.352	-6.521	16.010	1.00	21.19
55	1851		SER	Α	900	37.614	-5.631	13.340	1.00	
	1852		SER	Α	900	38.368	-4.478	13.683	1.00	22.08

		THREE-C	IMENSIONAL	L COO	RDINA	TES OF AR II	N COMPLE	X WITH DI	1 T	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	1853	N	VAL	Α	901	35.866	-4.346	15.939	1.00	20.99
	1854	CA	VAL	Α	901	35.808	-4.235	17.396	1.00	20.43
	1855	С	VAL	Α	901	34.397	-4.087	17.935	1.00	20.42
10	1856	0	VAL	Α	901	33.999	-4.823	18.841	1.00	21.68
	1857	СВ	VAL	Α	901	36.705	-3.074	17.927	1.00	20.22
	1858	CG1	VAL	A	901	36.407	-2.785	19.382	1.00	20.37
	1859	CG2	VAL	A	901	38.168	-3.436	17.782	1.00	18.81
15	1860	N	GLN	4	902	33.614	-3.187	17.350	1.00	19.34
	1861	CA	GLN	A	902	32.264	-2.957	17.828	1.00	17.55
•	1862	С	GLN	Α	902	31.145	-3.766	17.207	1.00	16.24
20	1863	0	GLN	A	902	30.337	-4.326	17.938	1.00	15.40
	1864	СВ	GLN	Α	902	31.929	-1.476	17.735	1.00	19.32
	1865	CG	GLN	Α	902	32.952	-0.579	18.371	1.00	20.82
25	1866	CD	GLN	Α	902	33.089	-0.776	19.861	1.00	23.15
25	1867	OE1	GLN	Α	902	32.211 1	-1.336	20.528	1.00	23.22
	1868	NE2	GLN	Α	902	34.197	-0.288	20.404	1.00	25.36
	1869	N	VAL	Α	903	31.075	-3.810	15.872	1.00	15.79
30	1870	CA	VAL	Α	903	30.025	-4.552	15.144	1.00	15.22
	1871	С	VAL	Α	903	29.860	-6.010	15.605	1.00	14.74
	1872	0	VAL	Α	903	28.732	-6.489	15.693	1.00	14.48
35	1873	СВ	VAL	Α	903	30.195	-4.461	13.594	1.00	14.30
55	1874	CG1	VAL	Α	903	29.159	-5.314	12.883	1.00	13.20
	1875	CG2	VAL	Α	903	30.012	-3.005	13.147	1.00	14.90
	1876	N	PRO	Α	904	30.976	-6.729	15.893	1.00	14.65
40	1877	CA	PRO	Α	904	30.884	-8.122	16.356	1.00	15.80
	1878	С	PRO	Α	904	30.053	-8.206	17.632	1.00	16.77
	1879	0	PRO	Α	904	29.151	-9.039	17.713	1.00	18.38
45	1880	СВ	PRO	Α	904	32.350	-8.481	16.602	1.00	15.45
, [1881	CG	PRO	Α	904	33.014	-7.830	15.512	1.00	14.60
	1882	CD	PRO	Α	904	32.377	-6.425	15.571	1.00	13.72
	1883	N	LYS	Α	905	30.286	-7.295	18.589	1.00	17.00
50	1884	CA	LYS	Α	905	29.525	-7.292	19.830	1.00	16.34
	1885	С	LYS	Α	905	28.039	-7.273	19.546	1.00	15.58
	1886	0	LYS	Α	905	27.251	-7.817	20.297	1.00	15.43
55	1887	СВ	LYS	Α	905	29.866	-6.085	20.668	1.00	18.17
	1888	CG	LYS	Α	905	31.293	-6.007	21.132	1.00	19.96
	1889	CD	LYS	Α	905	31.464	-4.733	21.947	1.00	22.09

TABLE 8 (continued)

			IMENSIONAL	IAB	LE 8	TES	DE AR IN	COMPLEX	X WITH DE	I T		
					X	T	Y T	Z	occ	В	AT	ОМ
	ATOM	ATOM TYPE	RESIDUE	#	905	32	.911	-4.429	22.276	1.00) 23	.59
5	1890	CE	LYS	A .	905	+	.003	-3.173	23.083	1.0	0 27	.13
	1891	NZ	LYS	A .	905	+	.647	-6.620	18.466	1.0	0 15	.71
	1892	N	ILE	A .	906	+-	3.239	-6.554	18.086	1.0	0 15	5.74
10	1893	CA	ILE	A .	├	+-	5.800	-7.899	17.478	1.0	0 17	2.05
	1894	С	ILE	A	906	4-	4.759	-8.471	17.834	1.0	10 16	3.35
	1895	0	ILE	A	900	-	5.991	-5,423	17.030	1.0	00 14	4.76
	1896	СВ	ILE	A	90	-	6.358	-4.051	17.611	1.0	00 1:	3.40
15	1897	CG1	ILE	A	90	-	4.527	-5.427	16.565	1.0	00 1	3.47
	1898	CG2	ILE	A	90	-	6.021	-2.876	16.686	1.	00 1	3.18
	1899	CD1	ILE	A	-	_	26.609	-8.385	16.539	1.	00 1	7.95
20	1900	N	LEU	1 A	90		26.348	-9.631	15.007	, 1.	.00 1	7.64
	1901	CA	LEU	A	90		26.346 26.386	-10.858	+	7 1	.00 1	8.93
	1902	С	LEU		90		26.360 25.756	-11.860	10.40	7 1	.00 2	20.36
	1903	0	LEU	A	+-		27.331	-9.787	11.05	9 1	.00	15.32
25	1904	СВ	LEU	A	+-		27.338	-8.653	10.00	2 1	.00	14.36
	1905	CG	LEU	^^	+-	-+	28.382	-8.88	10.55		.00	12.28
	1906	CD1	LEU	^_ <u>^</u>			25.947	-8.53	10.00	9 1	.00	13.60
30	1907	CD2	LEU	_ A	+-	07	27.097	-10.80		8 .	1.00	19.02
	1908	N	SER	^	<u>`</u>	808	27.103	-11.94		/2	1.00	19.60
	1909	CA	SER		-	808		-11.84	1000	37	1.00	20.23
	1910) C	SER			808	25.946	-12.70		52	1.00	20.86
35	191	0	SER			908		-12.09		07	1.00	19.21
	191	2 CB	SER			908	28.469	-10.94	- 	35	1.00	19.20
	191	3 OG	SER	-+-		908	28.811	-10.79		12	1.00	19.30
40	191	4 N	GLY		-+	909	25.208	-10.6		17	1.00	18.22
	191	5 CA	GLY			909	24.169				1.00	16.28
	191	6 C	GLY		A	909	23.711	-9.7	· ·		1.00	16.09
	191	7 O	GLY		<u> </u>	909	25.773			-	1.00	16.37
45	191	18 N	LYS		<u> </u>	910	 			+	1.00	17.37
	19	19 CA	LYS	-+	A	910	26.166 25.472				1.00	18.68
	19:	20 C	LYS		A	910	 	<u></u>		640	1.00	19.51
50	19	21 0	LYS		A	910	25.250			403	1.00	17.13
	19	22 CB	LYS		A	910	27.665			.684	1.00	16.3
	19	23 CG	LYS	3	Α	910	28.418			.896	1.00	17.4
	19	24 CD	LYS	3	A	910				.482	1.00	17.9
55	19	25 CE	LYS	3	A	910	+			.502	1.00	19.9
	19	926 NZ	LY	3	Α	910	32.05	5 -10.			<u></u>	

TABLE 8 (continued)

		THREE-D	IMENSIONAL	COO	RDINAT	TES OF AR II	OMPLE	X WITH DE	11	
	АТОМ	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
5	1927	N	VAL	Α	911	25.219	-6.641	22.397	1.00	18.99
	1928	CA	VAL	Α	911	24.545	-5.341	22.396	1.00	17.49
	1929	С	VAL	Α	911	23.379	-5.475	21.458	1.00	17.48
10	1930	0	VAL	.A	911	23.504	-6.015	20.358	1.00	17.40
	1931	СВ	VAL	Α	911	25.501	-4.130	22.041	1.00	17.52
	1932	CG1	VAL	Α	911	26.928	-4.550	22.019	1.00	15.48
	1933	CG2	VAL	Α	911	25.094	-3.412	20.788	1.00	15.48
15	1934	N	LYS	Α	912	22.219	-5.032	21.896	1.00	17.96
	1935	CA	LYS	A	912	21.057	-5.210	21.072	1.00	19.32
	1936	C	LYS	Α	912	20.262	-3.943	20.903	1.00	19.72
20	1937	0	LYS	A	912	20.437	-2.985	21.651	1.00	19.46
	1938	СВ	LYS	Α	912	20.189	-6.325	21.672	1.00	21.17
	1939	CG	LYS	Α	912	19.261	-5.889	22.811	1.00	25.24
25	1940	CD	LYS	4	912	19.998	-5.297	24.030	1.00	26.63
25	1941	CE	LYS	A	912	19.509	-3.871	24.370	1.00	26.56
	1942	NZ	LYS	A	912	18.028	-3.782	24.457	1.00	27.08
	1943	N	PRO	Α	913	19.463	-3.877	19.841	1.00	20.13
30	1944	CA	PRO	Α	913	18.693	-2.665	19.683	1.00	20.09
	1945	С	PRO	Α	913	17.555	-2.665	20.658	1.00	20.77
	1946	0	PRO	Α	913	17.108	-3.719	21.120	1.00	20.82
35	1947	СВ	PRO	Α	913	18.174	-2.780	18.259	1.00	20.97
	1948	CG	PRO	Α	913	18.127	-4.240	18.017	1.00	21.02
	1949	CD	PRO	Α	913	19.437	-4.660	18.599	1.00	20.38
	1950	N	ILE	Α	914	17.094	-1.460	20.972	1.00	20.62
40	1951	CA	ILE	Α	914	15.965	-1.262	21.846	1.00	18.90
	1952	С	ILE	Α	914	14.823	-1.093	20.858	1.00	19.73
	1953	0	ILE	Α	914	14.946	-0.313	19.909	1.00	20.71
45	1954	СВ	ILE	Α	914	16.119	0.012	22.659	1.00	17.34
	1955	CG1	ILE	Α	914_	17.445	-0.022	23.418	1.00	16.40
	1956	CG2	ILE	Α_	914	14.953	0.149	23.589	1.00	15.42
	1957	CD1	ILE	Α	914	17.794	1.261	24.098	1.00	15.82
50	1958	N	TYR	Α	915	13.774	-1.908	20.995	1.00	19.80
	1959	CA	TYR	Α	915	12.622	-1.823	20.105	1.00	19.03
	1960	С	TYR	Α	915	11.468	-1.273	20.882	1.00	18.68
55	1961	0	TYR	Α	915	11.340	-1.494	22.080	1.00	18.72
	1962	СВ	TYR	Α	915	12.194	-3.193	19.566	1.00	18.88
	1963	CG	TYR	Α	915	13.072	-3.773	18.505	1.00	18.76

TABLE 8 (continued)

		THREE-C	IMENSIONA	L COO	RDINA	TES OF AR I	N COMPLE	X WITH DI	НΤ	
	АТОМ	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	1964	CD1	TYR	Α	915	14.096	-4.640	18.832	1.00	19.63
	1965	CD2	TYR	Α	915	12.881	-3.457	17.173	1.00	19.64
	1966	CE1	TYR	Α	915	14.923	-5.170	17.853	1.00	21.76
10	1967	CE2	TYR	Α	915	13.698	-3.989	16.177	1.00	20.92
	1968	CZ	TYR	Α	915	14.721	-4.839	16.531	1.00	21.98
	1969	ОН	TYR	Α	915	15.592	-5.314	15.577	1.00	25.00
	1970	N	PHE	Α	916	10.621	-0.543	20.194	1.00	18.68
15	1971	CA	PHE	Α	916	9.456	-0.019	20.836	1.00	19.66
	1972	С	PHE	Α	916	8.451	-1.148	20.868	1.00	21.60
	1973	0	PHE	Α	916	7.862	-1.434	21.910	1.00	22.04
20	1974	СВ	PHE	Α	916	8.898	1.145	20.042	1.00	17.07
	1975	CG	PHE	Α	916	9.567	2.411	20.335	1.00	14.89
	1976	CD1	PHE	Α	916	9.377	3.034	21.561	1.00	16.16
<i>25</i>	1977	CD2	PHE	Α	916	10.393	2.992	19.407	1.00	16.16
25	1978	CE1	PHE	Α	916	10.010	4.225	21.854	1.00	14.78
	1979	CE2	PHE	Α	916	11.028	4.183	19.689	1.00	16.01
	1980	CZ	PHE	Α	916	10.836	4.800	20.916	1.00	15.28
30	1981	N	HIS	Α	917	8.300	-1.804	19.718	1.00	22.86
	1982	CA	HIS	Α	917	7.354	-2.899	19.543	1.00	24.45
	1983	С	HIS	Α	917	8.077	-4.225	19.477	1.00	25.83
35	1984	0	HIS	Α	917	9.185	-4.257	18.908	1.00	27.53
	1985	СВ	HIS	Α	917	6.549	-2.696	18.258	1.00	23.60
	1986	CG	HIS	Α	917	5.921	-1.347	18.153	1.00	21.90
	1987	ND1	HIS	Α	917	4.614	-1.109	18.504	1.00	21.41
40	1988	CD2	HIS	Α	917	6.440	-0.153	17.787	1.00	21.97
	1989	CE1	HIS	Α	917	4.350	0.178	18.360	1.00	22.05
	1990	NE2	HIS	Α	917	5.446	0.783	17.929	1.00	21.26
45	1991		HIS	Α	917					
	1992	C1	DHT		201	27.685	5.199	4.565	1.00	13.59
	1993	C2	DHT		201	26.814	6.485	4.636	1.00	12.55
	1994	C3	DHT		201	25.484	6.280	3.944	1.00	12.58
50	1995	03	DHT		201	24.904	7.249	3.448	1.00	11.99
	1996	C4	DHT		201	24.887	4.964	3.857	1.00	13.18
	1997	C5	DHT		201	25.464	3.903	4.357	1.00	13.98
55	1998	C6	DHT		201	24.727	2.560	4.241	1.00	14.79
]	1999	C7	DHT		201	25.613	1.454	3.609	1.00	14.79
Į	2000	C8	DHT		201	26.955	1.303	4.359	1.00	15.54

		THREE-D	IMENSIONAL			(continued)	N COMPLE	X WITH DI		
	ATOM	ATOM TYPE	RESIDUE	#	х	Υ	Z	осс	В	ATOM
5	2001	C9	DHT		201	27.708	2.656	4.279	1.00	14.37
	2002	C10	DHT		201	26.943	3.876	4.949	1.00	14.56
	2003	C11	DHT		201	29.161	2.525	4.830	1.00	14.73
10	2004	C12	DHT		201	29.951	1.344	4.192	1.00	14.11
	2005	C13	DHT	_	201	29.194	-0.010	4.339	1.00	15.34
	2006	C14	DHT		201	27.784	0.212	3.680	1.00	15.67
	2007	C15	DHT		201	27.178	-1.232	3.647	1.00	15.64
15	2008	C16	DHT		201	28.435	-2.118	3.310	1.00	15.37
	2009	C17	DHT		201	29.679	-1.189	3.426	1.00	14.87
	2010	017	DHT		201	30.910	-1.918	3.981	1.00	16.20
20	2011	C18	DHT		201	29.107	-0.450	5.847	1.00	14.67
	2012	C19	DHT		201	26.781	3.770	6.524	1.00	13.94
	2013	0	нон		1	16.187	17.463	26.217	1.00	26.98
05	2014	0	нон		2	19.878	17.183	14.290	1.00	13.49
25	2015	0	нон		3	18.473	14.908	14.407	1.00	6.52
	2016	0	нон		4	29.144	18.703	11.673	1.00	37.40
	2017	0	нон		5	27.076	19.321	12.893	1.00	18.76
30	2018	0	нон		6	23.789	12.817	9.649	1.00	33.78
	2019	0	нон		. 7	25.400	14.577	5.432	1.00	19.79
	2020	0	нон		8	23.015	12.473	12.245	1.00	14.03
35	2021	0	нон		9	25.209	14.445	2.442	1.00	19.95
50	2022	0	нон		10	34.235	16.490	0.235	1.00	41.09
	2023	0	нон		11	31.687	16.720	1.143	1.00	22.88
	2024	0	нон		12	26.451	12.094	2.237	1.00	8.25
40	2025	0	нон		13	11.606	-0.191	-7.963	1.00	46.13
	2026	0	НОН		14	13.798	0.894	17.657	1.00	15.30
	2027	0	нон		15	15.475	2.114	16.386	1.00	12.01
45	2028	0	нон		16	8.514	-2.110	12.665	1.00	21.79
	2029	0	нон		17	23.094	0.783	14.094	1.00	10.94
	2030	0	нон		18	23.758	-13.306	5.541	1.00	40.43
	2031	0	нон		19	22.933	-11.472	10.611	1.00	31.03
50	2032	0	нон		20	26.094	-11.914	5.354	1.00	51.71
	2033	0	нон		21	10.995	-6.843	16.294	1.00	29.91
	2034	0	нон		22	23.088	7.362	-10.811	1.00	30.10
55	2035	0	нон		23	26.671	9.139	-8.686	1.00	38.12
	2036	0	нон		24	35.410	-8.438	-7.084	1.00	42.68
	2037	0	нон		25	10.842	24.253	21.391	1.00	43.09

TABLE 8 (continued)

			IMENSIONAL	COOL	LE 8 (C	FS C	F AR IN	COMPLEX	WITH DH	Τ		
				#	X		Y	Z	occ	В	ΑT	ОМ
_	ATOM	ATOM TYPE	RESIDUE		26	40.	376	-11.785	7.548	1.00	54	.35
5	2038	0	HOH		27		671	16.382	5.866	1.00) 24	.50
	2039	0	HOH		28		.009	20.744	8.572	1.00	36	3.16
	2040	0	HOH		29		.490	17.190	30.961	1.00) 50	3.26
10	2041	0	НОН		30		.829	-12.134	25.596	1.0	0 3	9.41
	2042	0	НОН	├	31		.457	5.523	7.132	1.0	0 2	8.93
	2043	0	НОН		32	├	.318	2.323	2.406	1.0	0 3	8.22
	2044	0	HOH		33	25	5.857	7.152	30.722	1.0	0 1	8.97
15	2045	0	НОН	┼	34	-	3.191	16.505	27.701	1.0	0 2	9.01
	2046	0	HOH		35	+-	4.018	2.408	20.246	1.0	00 1	8.75
	2047	0	НОН	-	36	+-	4.651	4.006	17.873	1.0	00 2	21.70
20	2048	0	НОН		37		5.786	11.770	25.499	1.0	00 :	35.58
	2049	0	НОН		38	+-	0.734	13.383	-9.834	1.	00	25.35
	2050	0	НОН		39	+-	0.334	6.151	20.624	1.	00	27.66
	2051	0	НОН			+-	-2.677	2.639	17.420	1.	00	35.67
25	2052	0	НОН		40	+	0.868	8.543	25.138	1.	00	43.49
	2053	0	НОН		41	+	-8.085	7.667		1	.00	40.82
	2054	0	НОН		42	-+-	6.749	1.200		3 1	.00	24.57
30	2055	0	НОН		43	+	-0.636	8.734		5 1	.00	40.09
	2056	0	НОН		4	-	22.487	-4.734		5 1	.00	28.04
	2057	0	HOH		4	_		17.070		7 1	.00	23.83
	2058	0	НОН		$-\!\!+\!\!-$	-+	18.615 38.089	13.268		6 .	.00	28.02
35	2059	0	НОН			-+	29.251	-11.850	10.54	9	1.00	25.40
	2060	0	НОН			8		9.36		8	1.00	24.06
	206	0	НОН			19	23.684	15.83		19	1.00	29.07
40	206	2 0	нон			50	23.124	8.28	<u> </u>	-+	1.00	34.35
	206	3 0	НОН			51	34.079	2.89		— 	1.00	22.39
	206	4 0	НОН			52	37.522	14.39	<u> </u>		1.00	20.42
	206	5 O	НОН			53	21.838	-10.85			1.00	48.09
45	206	6 0	нон			54	16.106	27.23		\dashv	1.00	24.50
	206	67 O	HOH			55	11.295			-+	1.00	34.94
	206	68 O	HOF	1		56	21.562			+	1.00	41.33
50	200	69 O	НОН	+		57	41.647			+	1.00	44.10
	20	70 O	HOF	1		58	12.897				1.00	26.84
	20	71 0	HOI	1		59	33.709				1.00	+
	20	72 0	НО	н		60	0.019	- 1 - 2		334	1.00	+
55		73 0	НО	Н		61	39.563	100		952	1.00	
		74 0	но	н		62	16.244	18.0	181 /.			

	THREE-DIMENSIONAL COORDINATES OF AR IN COMPLEX WITH DHT ATOM ATOM TYPE RESIDUE # X Y Z OCC B ATOM										
	АТОМ	ATOM TYPE	RESIDUE	#	х	Υ	z	осс	В	ATOM	
5	2075	0	НОН		63	13.038	13.790	19.688	1.00	21.93	
	2076	0	нон		64	22.095	3.621	21.834	1.00	19.27	
	2077	0	НОН		65	25.524	-2.235	39.160	1.00	30.91	
10	2078	0	НОН		66	25.090	-1.064	36.971	1.00	31.16	
	2079	0	нон		67	5.186	-1.082	5.207	1.00	26.66	
	2080	0	НОН		68	-0.310	15.229	24.529	1.00	28.42	
	2081	0	НОН		69	-6.181	9.210	18.935	1.00	37.84	
15	2082	0	нон		70	17.508	26.662	14.814	1.00	30.32	
	2083	0	нон		71	17.401	31.211	13.007	1.00	30.57	
	2084	0	нон		72	21.268	22.961	10.009	1.00	33.92	
20	2085	0	нон		73	26.335	12.379	6.567	1.00	36.58	
	2086	0	нон		74	33.730	15.077	4.345	1.00	24.42	
	2087	0	нон		75	28.576	2.290	-15.305	1.00	30.54	
05	2088	0	нон		76	-5.886	5.402	21.276	1.00	48.01	
25	2089	0	нон		77	31.878	-6.250	-10.283	1.00	38.45	
	2090	0	нон		78	30.673	18.487	18.256	1.00	34.16	
	2091	0	нон		79	35.035	20.192	15.084	1.00	37.70	
30	2092	0	нон		80	32.791	17.836	19.423	1.00	35.34	
	2093	0	нон		81	22.587	-14.097	7.907	1.00	30.71	
	2094	0	нон		82	29.778	-9.620	-0.255	1.00	24.68	
35	2095	0	нон		83	25.904	17.949	24.176	1.00	16.80	
	2096	0	НОН		84	33.066	-13.092	7.455	1.00	20.84	
	2097	0	нон		85	31.787	15.265	28.988	1.00	32.80	
	2098	0	нон		86	27.029	0.835	13.994	1.00	20.01	
40	2099	0	нон		87	20.499	2.720	16.384	1.00	31.66	
	2100	0	нон		88	10.991	16.858	-1.085	1.00	30.58	
	2101	0	НОН		89	7.904	10.344	-5.081	1.00	41.55	
45	2102	0	нон		90	12.570	3.398	-10.099	1.00	26.95	
	2103	0	нон		91	17.128	3.214	-10.962	1.00	22.24	
	2104	0	нон		92	17.056	1.547	-4.553	1.00	26.98	
	2105	0	нон		93	11.020	0.892	6.595	1.00	25.24	
50	2106	0	нон		94	24.948	1.135	35.230	1.00	27.44	
	2107	0	НОН		95	24.006	5.653	35.765	1.00	34.54	
	2108	0	нон		96	29.738	0.950	27.680	1.00	26.47	
55	2109	0	нон		97	1.507	8.706	22.315	1.00	36.26	
	2110	0	нон		98	10.755	-4.751	9.776	1.00	27.77	
	2111	0	нон		99	20.223	-3.560	14.440	1.00	25.10	

TABLE 8 (continued)

			TAB	LE 8 (0	ontinued)				
		IMENSIONAL	COOF	RDINATI	ES OF AR IN	V COMPLEX	WITH DH	<u> </u>	17014
	THREE-D			- V		Z	occ	В	ATOM
ATOM	ATOM TYPE	RESIDUE	#	X		-9.103	2.467	1.00	26.08
2112	0	НОН		100	30.147	<u> </u>	-5.152	1.00	28.96
	0	нон		101	28.518	-12.565		1.00	38.02
2113		HOH	-	102	39.044	7.751	17.961		37.73
2114	0		103		37.030	10.428	20.994	1.00	
2115	0	НОН	 		7.847	-2.227	15.270	1.00	24.79
2116	0	нон		104		-5.351	21.522	1.00	40.62
	10	НОН		105	9.958		-12.688	1.00	30.96
2117		НОН		106	21.201	6.928	-12.000	1	<u></u>
2118	0								

		IREE-DIMENS		DINIAT	ES (ABLE S	IN COMP	LEX	WITH	THE LIGANI	R188	51 	
			IONAL COOR	ואאוט	E3 \	, ,,,,,	Y	Z		occ	В		OM
A	TOM	ATOM TYPE	RESIDUE	#	<u> </u>		22.921	9.4	48	24.884	1.00	7	7.12
-	1	N	CYS	A			22.859	9.7	723	23.414	1.00	8	6.87
-	2	CA	CYS	A	┼	69	21.892	8.	793	22.633	1.00	8	6.11
-	3	С	CYS	A	+-	69	22.074	8.	565	21.427	1.00	7	7.81
+	4	0	CYS	A	4	69	24.276	9.	675	22.802	1.00	3	88.59
-		СВ	CYS	A	4-	669	24.838	 -	217	21.992	1.00	7	94.18
+	6	SG	CYS	A	4	669		 	318	23.308	1.00		87.01
+		N	GLN	A		670	20.835	 	.405	22.705	1.00)	89.27
+	 8	CA	GLN	A		670	19.841	4—	3,155	21.935	1.00)	86.82
+	9	C	GLN	A	\perp	670	18.731	+-	9.157	22.427	1.00	0	85.28
ł	10	0	GLN	A		670	18.184		6.498	23,792	1.0	0	93.96
-		CB	GLN	A		670	19.222	+	5.330	23.282	1.0	0	90.90
1	12	CG	GLN	A		670	18.335		3.972	23.548	1.0	00	89.73
	13	CD	GLN	1		670	18.946		3.532	22.833	1.0	00	86.20
	14	OE1	GLN	/	4	670	19.840	-+-	3.297	24.575	1.0	00	91.02
	15	NE2	GLN		A	670	18.45			20.764	1.	00	82.62
	16	N	PRO		Α	671	18.31		7.612	19.921	$\frac{1}{1}$	00	76.7
		CA	PRO		Α	671	17.27	-+	8.224	00.007	1.	.00	71.1
	17		PRO		Α	671	15.79		8.270	10.500	1	.00	75.3
	18		PRO		Α	671		-+	8.452	10.500	1	.00	73.1
	19		PRO		Α	671		-+	7.449	10.076		.00	75.9
	20		PRO		Α	671			6.058			1.00	80.
	21	CD	PRO	,	Α	671	18.8	35	6.38	04 CG1		1.00	59.
	22	- N	ILE	-+	Α	672	2 15.4	73	8.18	20.045		1.00	57.
	23	CA	ILE		Α	67	2 14.0)45	8.21	24 600		1.00	59.
	2.		ILE		Α	67	2 13.	232	9.46	- 01 00		1.00	54
	ļ		ILE		Α	67	2 12.	069	9.35	58 21.23	*		٠
	2	26 0		1									

TABLE 9 (continued)

	1	HREE-DIMENS	IONAL COOF	RDINA	TES OF A	AR IN COM	PLEX WIT	H THE LIGA	ND R188	31
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	27	СВ	ILE	Α	672	13.792	7.852	23.525	1.00	54.74
	28	CG1	ILE	Α	672	12.353	8.234	23.892	1.00	47.09
	29	CG2	ILE	Α	672	14.835	8.496	24.426	1.00	64.17
10	30	CD1	ILE	Α	672	11.963	7.922	25.277	1.00	56.37
	31	N	PHE	Α	673	13.834	10.642	21.885	1.00	61.01
	32	CA	PHE	Α	673	13.167	11.909	21.583	1.00	53.54
	33	С	PHE	Α	673	12.960	12.039	20.068	1.00	44.47
15	34	0	PHE	Α	673	11.858	12.376	19.585	1.00	38.12
	35	СВ	PHE	Α	673	13.980	13.095	22.129	1.00	55.20
	36	CG	PHE	Α	673	13.247	14.403	22.055	1.00	54.87
20	37	CD1	PHE	Α	673	12.248	14.703	22.976	1.00	54.05
	38	CD2	PHE	A	673	13.491	15.292	21.017	1.00	47.32
	39	CE1	PHE	Α	673	11.500	15.858	22.860	1.00	53.41
25	40	CE2	PHE	Α	673	12.749	16.448	20.897	1.00	49.17
23	41	CZ	PHE	Α	673	11.749	16.730	21.816	1.00	53.29
	42	N	LEU	Α	674	14.023	11.743	19.327	1.00	36.26
	43	CA	LEU	Α	674	13.976	11.789	17.882	1.00	38.85
30	44	С	LEU	Α	674	12.919	10.866	17.273	1.00	38.35
	45	0	LEU	Α	674	12.254	11.238	16.300	1.00	39.82
	46	СВ	LEU	Α	674	15.358	11.487	17.303	1.00	45.56
35	47	CG	LEU	Α	674	16.279	12.708	17.252	1.00	49.73
55	48	CD1	LEU	Α	674	17.687	12.339	16.760	1.00	48.00
	49	CD2	LEU	Α	674	15.638	13.737	16.318	1.00	42.53
	50	N	ASN	Α	675	12.731	9.686	17.871	1.00	40.82
40	51	CA	ASN	Α	675	11.744	8.705	17.370	1.00	41.39
	52	С	ASN	Α	675	10.374	9.297	17.456	1.00	39.61
	53	0	ASN	Α	675	9.527	9.092	16.568	1.00	33.60
45	54	СВ	ASN	Α	675	11.734	7.434	18.209	1.00	51.05
	55	CG	ASN	Α	675	13.008	6.648	18.091	1.00	55.02
	56	OD1	ASN	Α	675	13.672	6.651	17.045	1.00	54.01
	57	ND2	ASN	Α	675	13.370	5.971	19.166	1.00	60.08
50	58	N	VAL	Α	676	10.159	10.022	18.551	1.00	37.88
	59	CA	VAL	Α	676	8.894	10.687	18.781	1.00	36.37
	60	С	VAL	Α	676	8.669	11.777	17.736	1.00	39.08
55	61	0	VAL	Α	676	7.631	11.798	17.072	1.00	43.18
	62	СВ	VAL	Α	676	8.821	11.336	20.153	1.00	36.30
	63	CG1	VAL	Α	676	7.421	11.860	20.358	1.00	29.55

	TABLE 9 (continued) THREE-DIMENSIONAL COORDINATES OF AR IN COMPLEX WITH THE LIGAND R1881 ATOM ATOM TYPE RESIDUE # X Y Z OCC B ATOM													
5		CG2	VAL	- "	676	9.187	10.341	21.236	1.00	30.15				
	64	N N	LEU	A	677	9.637	12.667	17.547	1.00	38.08				
	65		LEU	A	677	9.429	13.726	16.565	1.00	37.80				
	66	CA	LEU	A	677	9.188	13.208	15.156	1.00	38.78				
10	67	С	LEU	A	677	8.324	13.730	14.448	1.00	44.11				
	68	0	LEU	A	677	10.571	14.726	16.574	1.00	34.97				
	69	CB	LEU	A	677	10.812	15.352	17.943	1.00	40.42				
15	70	CG	LEU	A	677	11.862	16.404	17.760	1.00	35.87				
	71	CD1	LEU	A	677	9.511	15.944	18.534	1.00	39.49				
	72	CD2	GLU	A	678	9.927	12.170	14.764	1.00	34.27				
	73	N OA	GLU	A	678	9.788	11.576	13.433	1.00	33.68				
20	74	CA	GLU	A	678	8.502	10.791	13.361	1.00	31.24				
	75	C	GLU	A	678	7.837	10.730	12.318	1.00	29.04				
	76	0	<u> </u>	A	678	10.972	10.692	13.139	1.00	41.54				
25	77	CB	GLU	A	678	12.250	11.475	13.231	1.00	62.50				
	78	CG	GLU	A	678	13.492	10.632	13.140	1.00	75.90				
	79	CD		A	678	13.382	9.393	13.275	1.00	81.73				
	80	OE1	GLU	A	678	14.581	11.222	12.946	1.00	77.79				
30	81	OE2	ALA	A	679	8.118	10.229	14.496	1.00	27.29				
	82	N	ALA	$\frac{1}{A}$	679	6.878	9.486	14.561	1.00	31.51				
	83	CA	ALA	A	679	5.658	10.400	14.416	1.00	37.88				
35	84	С		^	679	4.657	10.013	13.784	1.00	39.80				
	85	0 CP	ALA	$\frac{1}{A}$	679	6.807	8.699	15.862	1.00	32.16				
	86	СВ	ILE		680	5.748	11.621	14.958	1.00	36.75				
	87	N	ILE	A	680	4.623	12.567	14.893	1.00	33.51				
40	88	CA	ILE	A	680	4.603	13.553	13.732	1.00	29.78				
	89	С	ILE	$\frac{1}{A}$	680	3.560	14.137	13.425	1.00	35.01				
	90	0	ILE	A	680	4.445	13.322	16.204	1.00	36.86				
45	91	CB	ILE	A	680	5.672	14.178	16.493	1.00	39.01				
	92	CG1	ILE	$\frac{1}{A}$	680	4.222	12.324	17.343	1.00	34.87				
	93	CG2	ILE	$\frac{1}{A}$	680	5.503	15.046	17.719	1.00	38.54				
	94	CD1		A	681	5.732	13.677	13.044	1.00	31.29				
50	95	N CA	GLU	A	681	5.833	14.570	11.904	1.00	36.50				
	96	CA	GLU	+	681	4.638	14.373	11.013	1.00	38.74				
	97	C	GLU	A	681	4.348	13.251	10.596	1.00	46.06				
55	98	0	GLU	A A	681	7.101	14.285	11.106	1.00	33.49				
	99	CB	GLU	A	681	7.101	15.322		1.00	41.42				
	100	CG	GLU	A	001	1 7.301	1.0.022	1						

TABLE 9 (continued)

	THREE-DIMENSIONAL COORDINATES OF AR IN COMPLEX WITH THE LIGAND R1881 ATOM ATOM TYPE RESIDUE # X Y Z OCC B AT										
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM	
5	101	CD	GLU	Α	681	7.500	16.742	10.581	1.00	49.46	
	102	OE1	GLU	Α	681	7.569	16.924	11.824	1.00	44.22	
	103	OE2	GLU	Α	681	7.527	17.687	9.759	1.00	52.12	
10	104	N	PRO	Α	682	3.892	15.446	10.751	1.00	41.06	
	105	CA	PRO	Α	682	2.695	15.422	9.904	1.00	41.12	
	106	С	PRO	Α	682	2.968	14.980	8.444	1.00	44.28	
	107	0	PRO	Α	682	4.076	15.133	7.920	1.00	36.92	
15	108	СВ	PRO	Α	682	2.214	16.870	9.965	1.00	43.30	
	109	CG	PRO	Α	682	2.800	17.399	11.250	1.00	38.89	
	110	CD	PRO	Α	682	4.159	16.800	11.261	1.00	39.59	
20	111	N	GLY	Α	683	1.943	14.446	7.788	1.00	48.21	
	112	CA	GLY	Α	683	2.103	13.990	6.416	1.00	51.13	
	113	С	GLY	Α	683	1.905	15.043	5.334	1.00	54.68	
05	114	0	GLY	Α	683	1.817	16.226	5.629	1.00	63.53	
25	115	N	VAL	Α	684	1.729	14.601	4.089	1.00	57.20	
	116	CA	VAL	Α	684	1.544	15.505	2.959	1.00	54.91	
	117	С	VAL	Α	684	0.123	16.048	2.952	1.00	54.45	
30	118	0	VAL	Α	684	-0.828	15.287	2.775	1.00	57.51	
	119	СВ	VAL	Α	684	1.805	14.792	1.625	1.00	51.72	
	120	CG1	VAL	Α	684	1.618	15.769	0.487	1.00	53.17	
<i>35</i>	121	CG2	VAL	Α	684	3.222	14.212	1.591	1.00	53.92	
55	122	N	VAL	Α	685	-0.021	17.360	3.125	1.00	48.43	
	123	CA	VAL	Α	685	-1.341	17.974	3.163	1.00	44.96	
	124	С	VAL	Α	685	-1.603	18.758	1.887	1.00	46.69	
40	125	0	VAL	Α	685	-0.934	19.742	1.644	1.00	54.09	
	126	СВ	VAL	Α	685	-1.455	18.932	4.355	1.00	39.06	
	127	CG1	VAL	Α	685	-2.888	19.062	4.764	1.00	41.14	
45	128	CG2	VAL	Α	685	-0.611	18.445	5.520	1.00	36.12	
	129	N	CYS	Α	686	-2.582	18.340	1.087	1.00	51.49	
	130	CA	CYS	Α	686	-2.921	19.015	-0.177	1.00	55.13	
	131	С	CYS	Α	686	-3.830	20.266	-0.010	1.00	56.12	
50	132	0	CYS	Α	686	-4.856	20.208	0.681	1.00	54.29	
ĺ	133	СВ	CYS	Α	686	-3.559	18.009	-1.155	1.00	57.05	
	134	SG	CYS	Α	686	-2.391	16.910	-2.025	1.00	65.52	
55	135	. N	ALA	Α	687	-3.484	21.374	-0.681	1.00	54.36	
	136	CA	ALA	Α	687	-4.248	22.631	-0.584	1.00	54.20	
į	137	С	ALA	Α	687	-5.583	22.542	-1.268	1.00	60.58	

TABLE 9 (continued)

	TABLE 9 (continued) THREE-DIMENSIONAL COORDINATES OF AR IN COMPLEX WITH THE LIGAND R1881 THREE-DIMENSIONAL COORDINATES OF AR IN COMPLEX WITH THE LIGAND R1881 THREE-DIMENSIONAL COORDINATES OF AR IN COMPLEX WITH THE LIGAND R1881												
	TI					- An II	V	Z		occ	В	AT	ОМ
	ATOM	ATOM TYPE	RESIDUE		687	 -	6.557	23.13	31 -	0.803	1.00	62	2.87
	138	0	ALA	_ <u>A</u> _	687		3.463	23.81	15	-1.168	1.00	4	9.21
	139	СВ	ALA	A .	688	+-	5.623	21.79	91	-2.366	1.00	6	7.12
	140	NN	GLY	A .	688		-6.847	21.6		-3.134	1.00	6	6.26
0	141	CA	GLY	A	688	-	-6.948	22.8		-4.024	1.00	6	4.95
	142	C	GLY	A	688	-	-7.888	23.6		-3.924	1.00	6	6.95
·	143	0	GLY	A	689		-5.951	23.0		-4.879	1.00	5	9.22
	144	N	HIS	A	689		-5.925	24.1	-+	-5.769	1.00		54.36
15	145	CA	HIS	A			-6.022	23.7		-7.220	1.00	1	59.75
	146	С	HIS	A	68		-5.393	22.7	-+	-7.602	1.00		62.11
	147	0	HIS	A	68	+-	-4.650	24.9		-5.537	1.00		46.90
20	148	СВ	HIS	A	68		-4.364	25.9		-6.617	1.00		52.16
	149	CG	HIS	A	68			27.	+	-6.787	1.00	,	52.66
	150	ND1	HIS	_ A	68		-5.104	↓	931	-7.633	1.00	,	58.89
	151	CD2	HIS	A	68		-3.474	+	750	-7.868	1.00	5	57.16
25	152	CE1	HIS	A		39	-4.683	+-	052	-8.402	1.0		60.29
	153	NE2	HIS	A		39	-3.695		424	-8.011	1.0	0	60.46
	154	N	ASP	A		90	-6.838	+	.108	-9.427	1.0		59.31
30	155	CA	ASP	A		90	-7.021			-10.280	1.0	-+-	60.15
	156	С	ASP	A	6	90	-5.835		.583	-10.654	1.0	-+-	58.71
	157	0	ASP	A	6	90	-5.739	-	.752	-9.949	1.0		60.31
	158	СВ	ASP	A	. 6	90	-8.334	-	.701	-11.304	1.0	-+	62.54
35	159	CG	ASP			90	-8.762		1.107	-12.054	1.0		54.14
	160	OD1	ASP	1	()	390	-7.90 ⁴	- -	3.586	-11.620	1.0		59.85
	161	OD2	ASP	/	1	390	-9.97		4.166	-10.564		00	66.30
40	162	N	ASN	/	1	691	-4.92		3.657			00	71.61
	163	CA	ASN		4	691	-3.73	-+-	3.940	-11.369		00	73.70
	164	С	ASN		Α	691	-4.03		3.857	-12.868		00	81.27
	165	0	ASN		A	691	-3.12		3.715	-13.682		.00	72.66
45	166	СВ	ASN		A	691	-2.58		2.971	-11.016		.00	72.16
	167		ASN		Α	691	-1.67		3.506	-9.923		.00	74.90
	168		ASN		A	691	-1.69		24.697	-9.600		.00	72.5
50	169		ASN		Α	691	-0.84		22.633	-9.365			70.7
	170		ASN		Α	692	-5.3		23.908	-13.227		.00	69.7
	17		ASN		Α	692	-5.7		23.851	-14.632		.00	66.0
	17		ASN	ī	Α	692	-6.4		25.131	-14.982		1.00	65.6
55	17		ASN	1	Α	692	-6.9		25.257			1.00	68.4
	17		ASN	1	Α	692	-6.5	51	22.600	-14.958		1.00	00.4

TABLE 9 (continued)

	THREE-DIMENSIONAL COORDINATES OF AR IN COMPLEX WITH THE LIGAND R1881 ATOM ATOM TYPE RESIDUE # X Y Z OCC B ATOM													
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM				
5	175	CG	ASN	Α	692	-6.019	21.331	-14.307	1.00	63.97				
	176	OD1	ASN	Α	692	-5.501	20.438	-14.972	0.00	65.30				
	177	ND2	ASN	Α	692	-6.184	21.240	-12.993	0.00	65.24				
10	178	N	GLN	Α	693	-6.597	26.035	-14.005	1.00	67.69				
	179	CA	GLN	Α	693	-7.255	27.340	-14.196	1.00	71.99				
	180	С	GLN	Α	693	-6.171	28.429	-14.199	1.00	74.61				
	181	0	GLN	Α	693	-5.230	28.359	-13.413	1.00	73.58				
15	182	СВ	GLN	Α	693	-8.279	27.647	-13.084	1.00	68.47				
	183	CG	GLN	Α	693	-9.575	26.819	-13.134	1.00	72.04				
	184	CD	GLN	Α	693	-10.172	26.661	-14.540	1.00	75.91				
20	185	OE1	GLN	Α	693	-9.955	27.497	-15.423	1.00	85.37				
:	186	NE2	GLN	Α	693	-10.936	25.592	-14.745	1.00	70.58				
	187	N	PRO	Α	694	-6.285	29.438	-15.091	1.00	81.70				
25	188	CA	PRO	Α	694	-5.302	30.531	-15.181	1.00	80.62				
25	189	С	PRO	Α	694	-5.118	31.249	-13.856	1.00	77.25				
	190	0	PRO	Α	694	-6.106	31.640	-13.206	1.00	74.33				
	191	СВ	PRO	Α	694	-5.911	31.458	-16.243	1.00	85.84				
30	192	CG	PRO	Α	694	-7.421	31.170	-16.151	1.00	89.04				
30	193	CD	PRO	Α	694	-7.398	29.662	-16.034	1.00	87.17				
	194	N	ASP	Α	695	-3.849	31.467	-13.496	1.00	76.00				
35	195	CA	ASP	Α	695	-3.494	32.117	-12.237	1.00	63.22				
	196	С	ASP	Α	695	-4.294	33.356	-11.942	1.00	56.02				
	197	0	ASP	Α	695	-4.859	33.997	-12.842	1.00	56.35				
	198	СВ	ASP	Α	695	-1.995	32.405	-12.153	1.00	63.70				
40	199	CG	ASP	Α	695	-1.190	31.192	-11.684	1.00	66.50				
	200	OD1	ASP	Α	695	-1.523	30.627	-10.617	1.00	66.69				
	201	OD2	ASP	Α	695	-0.217	30.802	-12.377	1.00	71.13				
45	202	N	SER	Α	696	-4.338	33.694	-10.666	1.00	56.40				
	203	CA	SER	Α	696	-5.093	34.839	-10.214	1.00	56.56				
	204	С	SER	Α	696	-4.690	35.191	-8.788	1.00	61.68				
	205	0	SER	Α	696	-4.326	34.319	-7.993	1.00	69.36				
50	206	СВ	SER	Α	696	-6.587	34.510	-10.289	1.00	54.32				
	207	OG	SER	Α	696	-7.365	35.473	-9.604	1.00	54.41				
	208	N	PHE	Α	697	-4.754	36.477	-8.474	1.00	61.93				
55	209	CA	PHE	Α	697	-4.412	36.974	-7.153	1.00	61.05				
٠	210	С	PHE	Α	697	-5.344	36.448	-6.037	1.00	61.34				
	211	0	PHE	_A	697	-4.881	36.053	-4.971	1.00	62.55				

				TAI	BLE 9	(con	tinued)			HE LICANI) R18	<u>81</u>	
	T	HREE-DIMENS	IONAL COOF	RDINAT	ES O	FARI	N COMF	PLEX	WITH	OCC	В	TAT	ОМ
	ATOM	ATOM TYPE	RESIDUE	#	X		Y			7.195	1.00	+	3.27
5	212	СВ	PHE	Α	697		-4.413	38.5		-5.951	1.00		0.53
	213	CG	PHE	Α	697		-4.961	39.1		-4.856	1.00		55.55
	214	CD1	PHE	Α	697		-4.142	39.3		-5.864	1.00	+-	51.74
10	215	CD2	PHE	Α	697	7	-6.306	39.4		-3.691	1.00		33.81
10	216	CE1	PHE	A	69	7	-4.651	39.9		-4.710	1.00	+-	66.91
	217	CE2	PHE	A	69	7	-6.825	40.0		-3.617	1.00	+-	69.41
	218	CZ	PHE	A	69	7	-5.994		267	-6.261	1.00		58.96
15	219	N	ALA	A	69	8	-6.653	├	464	-5.230	1.00	+-	59.58
	220	CA	ALA	A	69	8	-7.577 		996	-5.143	1.00		61.20
	221	С	ALA	A	69	8	-7.653		467	-5.143 -4.063	1.00		64.62
20	222	0	ALA	Α	69	98	-7.862	+-	.913	-5.448	1.0	+-	56.65
20	223	СВ	ALA	A	69	98	-8.965 		.589		1.0		58.65
	224	N	ALA	Α	69	99	-7.492 		.783	-6.272	1.0		57.39
	225	CA	ALA	Α	6	99	-7.555 		.328	-6.270	1.0	-+-	54.55
25	226	С	ALA	Α	6	99	-6.290	+	.748	-5.616	1.0		57.04
	227	0	ALA	Α	6	99	-6.349).708	-4.951	1.0		58.30
	228	СВ	ALA	A	6	99	-7.749 		.791	-7.694	1.0		44.77
30	229	N	LEU	Α	7	700	-5.155 		2.423	-5.786	1.0	-+	40.04
50	230	CA	LEU	A	7	700	-3.921		1.956	-5.181	1.0		40.02
	231	С	LEU	A	. 7	700	-3.983	_	2.180	-3.667	+	00	42.09
	232	0	LEU	A	7	700	-3.737		1.256	-2.893		00	40.84
35	233	СВ	LEU	1		700	-2.709		2.661	-5.800	—	00	47.93
	234		LEU	1	\ \	700	-2.36		2.286	-7.251			52.49
	235		LEU	/		700	-1.19	_	3.092	-7.751	-	.00	41.70
40	236		LEU	T .	4	700	-2.03		30.824	-7.337		.00	38.79
,,,	237		LEU		A	701	-4.38		33.375	-3.238		.00	40.37
	238		LEU		A	701	-4.46		33.679 	-1.808		.00	45.30
	239		LEU		A	701	-5.54		32.917	-1.024			45.1
45	240		LEU		Α	701	-5.30		32.557 ———	0.128		.00	37.8
	24		LEU		A	701	-4.54		35.190	-1.561		1.00	41.3
	24		LEU		Α	701	-3.2		35.971	-1.868			41.5
50	24		LEU		Α	701	-3.4	79	37.426	-1.612		1.00	35.3
	24		LEU		Α	701	-2.0	70	35.506	-1.025		1.00 1.00	52.3
	24		SER		Α	702	-6.7	19	32.678	 	-+-	1.00	54.3
	24		SER	}	Α	702	-7.8		31.899				51.6
55	24		SEF	3	Α	702	-7.3	-+	30.433	 		1.00	45.0
	 	18 0	SEF	3	Α	702	-7.7	740	29.806	0.234		1.00	

TABLE 9 (continued)

	THREE-DIMENSIONAL COORDINATES OF AR IN COMPLEX WITH THE LIGAND R1881 ATOM ATOM TYPE RESIDUE # X Y Z OCC B ATOM											
	ATOM	ATOM TYPE	RESIDUE	#	X	Υ	Z	occ	В	ATOM		
5	249	СВ	SER	Α	702	-9.060	31.920	-1.914	1.00	50.95		
	250	OG	SER	Α	702	-9.500	33.246	-2.101	1.00	50.66		
	251	N	SER	Α	703	-6.649	29.890	-1.756	1.00	49.24		
10	252	CA	SER	Α	703	-6.119	28.536	-1.660	1.00	46.51		
	253	С	SER	Α	703	-5.101	28.504	-0.528	1.00	46.34		
	254	0	SER	Α	703	-5.141	27.597	0.293	1.00	52.79		
	255	СВ	SER	Α	703	-5.442	28.115	-2.956	1.00	37.23		
15	256	OG	SER	Α	703	-6.388	28.080	-4.005	1.00	45.32		
	257	N	LEU	Α	704	-4.215	29.501	-0.459	1.00	40.74		
	258	CA	LEU	Α	704	-3.227	29.548	0.618	1.00	36.98		
20	259	С	LEU	Α	704	-3.902	29.552	1.984	1.00	41.66		
	260	0	LEU	Α	704	-3.389	28.951	2.920	1.00	45.02		
	261	СВ	LEU	Α	704	-2.302	30.751	0.485	1.00	30.44		
25	262	CG	LEU	Α	704	-0.994	30.563	-0.291	1.00	35.89		
25	263	CD1	LEU	Α	704	-0.235	31.859	-0.308	1.00	36.89		
	264	CD2	LEU	Α	704	-0.115	29.484	0.307	1.00	37.91		
	265	N	ASN	Α	705	-5.061	30.208	2.076	1.00	45.16		
30	266	CA	ASN	Α	705	-5.849	30.289	3.311	1.00	43.35		
	267	С	ASN	Α	705	-6.521	28.962	3.618	1.00	42.54		
	268	0	ASN	Α	705	-6.677	28.594	4.779	1.00	40.34		
35	269	СВ	ASN	Α	705	-6.934	31.370	3.201	1.00	44.83		
55	270	CG	ASN	Α	705	-6.362	32.771	3.137	1.00	43.71		
	271	OD1	ASN	Α	705	-5.197	32.992	3.470	1.00	48.81		
	272	ND2	ASN	Α	705	-7.176	33.726	2.694	1.00	38.59		
40	273	N	GLU	Α	706	-6.991	28.269	2.591	1.00	42.62		
	274	CA	GLU	Α	706	-7.607	26.987	2.842	1.00	44.02		
	275	С	GLU	Α	706	-6.478	26.033	3.261	1.00	42.46		
45	276	0	GLU	Α	706	-6.639	25.253	4.195	1.00	42.70		
į	277	СВ	GLU	Α	706	-8.352	26.472	1.621	1.00	45.19		
	278	CG	GLU	Α	706	-9.322	25.338	1.971	1.00	55.97		
	279	CD	GLU	Α	706	-10.417	25.735	2.986	1.00	58.77		
50	280	OE1	GLU	Α	706	-11.019	26.817	2.838	1.00	60.87		
	281	OE2	GLU	Α	706	-10.707	24.945	3.918	1.00	60.16		
	282	N	LEU	Α	707	-5.307	26.167	2.636	1.00	38.31		
₅₅ –	283	CA	LEU	Α	707	-4.152	25.342	2.982	1.00	37.96		
	284	С	LEU	Α	707	-3.767	25.654	4.431	1.00	44.27		
	285	0	LEU	Α	707	-3.464	24.747	5.211	1.00	51.41		

	TABLE 9 (continued) THREE-DIMENSIONAL COORDINATES OF AR IN COMPLEX WITH THE LIGAND R1881 ATOM ATOM TYPE RESIDUE # X Y Z OCC B ATOM												
5	286	СВ	LEU	Ā	707	-2.958	25.608	2.046	1.00	35.41			
	287	CG	LEU	A	707	-1.651	24.872	2.392	1.00	35.71			
	288	CD1	LEU	Α	707	-1.895	23.385	2.326	1.00	38.82			
10	289	CD2	LEU	A	707	-0.518	25.239	1.459	1.00	33.25			
10	290	N	GLY	Α	708	-3.782	26.938	4.787	1.00	45.88			
	291	CA	GLY	Α	708	-3.463	27.344	6.144	1.00	40.92			
	292	С	GLY	Α	708	-4.386	26.618	7.096	1.00	39.05			
15	293	0	GLY	Α	708	-3.937	25.851	7.924	1.00	45.81			
	294	N	GLU	A	709	-5.685	26.790	6.913	1.00	46.04			
	295	CA	GLU	Α	709	-6.680	26.125	7.758	1.00	51.25			
20	296	С	GLU	Α	709	-6.367	24.637	7.975	1.00	51.93			
	297	0	GLU	Α	709	-6.213	24.197	9.107	1.00	56.39			
	298	СВ	GLU	Α	709	-8.079	26.273	7.151	1.00	56.56			
	299	CG	GLU	Α	709	-9.198	25.652	7.984	1.00	63.02			
25	300	CD	GLU	Α	709	-9.766	26.593	9.042	1.00	64.61			
	301	OE1	GLU	Α	709	-9.157	27.641	9.338	1.00	66.14			
	302	OE2	GLU	Α	709	-10.855	26.293	9.573	1.00	65.41			
30	303	N	ARG	Α	710	-6.235	23.864	6.901	1.00	53.43			
	304	CA	ARG	Α	710	-5.938	22.440	7.058	1.00	50.19			
	305	С	ARG	Α	710	-4.617	22.102	7.735	1.00	44.91			
	306	0	ARG	Α	710	-4.522	21.061	8.396	1.00	43.38			
35	307	СВ	ARG	Α	710	-6.032	21.652	5.747	1.00	56.69			
	308	CG	ARG	Α	710	-6.192	22.446	4.493	1.00	59.66			
	309	CD	ARG	Α	710	-7.462	22.035	3.786	1.00	59.37			
40	310	NE	ARG	Α	710	-7.203	21.172	2.643	1.00	58.69			
	311	CZ	ARG	Α	710	-8.124	20.857	1.736	1.00	70.01			
	312	NH1	ARG	Α	710	-9.364	21.349	1.854	1.00	75.20			
45	313	NH2	ARG	A	710	-7.812	20.057	0.713	1.00	65.26			
40	314	N	GLN	Α	711	-3.596	22.939	7.556	1.00	40.11			
	315	CA	GLN	Α	711	-2.310	22.685	8.189	1.00	34.69			
	316	С	GLN	A	711	-2.355	23.007	9.653	1.00	36.60			
50	317	0	GLN	Α	711	-1.501	22.557	10.408	1.00	40.79			
	318	СВ	GLN	Α	711	-1.194	23.478	7.542	1.00	42.15			
	319	CG	GLN	A	711	-0.753	22.877	6.244	1.00	43.03			
55	320	CD	GLN	A	711 1	0.553	23.442	5.779	1.00	44.24			
	321	OE1	GLN	A	711	1.321	23.988	6.567	1.00	54.32			
	322	NE2	GLN	Α	711	0.828	23.305	4.496	1.00	52.33			

	1	HREE-DIMENS	SIONAL COOF	RDINA	TES OF A	AR IN COM	PLEX WIT	H THE LIGA	ND R188	31
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	323	N	LEU	Α	712	-3.361	23.778	10.054	1.00	41.25
	324	CA	LEU	Α	712	-3.561	24.163	11.457	1.00	43.47
	325	C	LEU	Α	712	-4.061	22.938	12.222	1.00	45.20
10	326	0	LEU	Α	712	-3.595	22.628	13.320	1.00	46.51
	327	СВ	LEU	Α	712	-4.585	25.295	11.550	1.00	42.08
	328	CG	LEU	Α	712	-4.829	25.943	12.905	1.00	45.04
45	329	CD1	LEU	Α	712	-3.489	26.199	13.594	1.00	48.18
15	330	CD2	LEU	Α	712	-5.610	27.248	12.711	1.00	44.32
	331	N	VAL	Α	713	-5.014	22.240	11.623	1.00	42.76
	332	CA	VAL	Α	713	-5.555	21.026	12.198	1.00	41.99
20	333	С	VAL	Α	713	-4.383	20.100	12.562	1.00	45.10
	334	0	VAL	Α	713	-4.275	19.646	13.703	1.00	45.64
	335	СВ	VAL	Α	713	-6.480	20.348	11.170	1.00	43.85
25	336	CG1	VAL	Α	713	-6.887	18.953	11.628	1.00	52.59
23	337	CG2	VAL	Α	713	-7.708	21.203	10.966	1.00	42.38
	338	N	HIS	Α	714	-3.471	19.905	11.604	1.00	46.35
	339	CA	HIS	Α	714	-2.286	19.044	11.767	1.00	45.95
30	340	С	HIS	Α	714	-1.379	19.495	12.857	1.00	43.82
	341	0	HIS	Α	714	-0.798	18.674	13.571	1.00	48.61
	342	СВ	HIS	Α	714	-1.458	18.971	10.487	1.00	49.61
35	343	CG	HIS	Α	714	-1.950	17.947	9.519	1.00	62.09
	344	ND1	HIS	Α	714	-3.157	18.058	8.873	1.00	63.02
	345	CD2	HIS	Α	714	-1.404	16.778	9.108	1.00	64.82
	346	CE1	HIS	Α	714	-3.340	17.005	8.100	1.00	70.96
40	347	NE2	HIS	Α	714	-2.291	16.211	8.219	1.00	70.54
	348	N	VAL	Α	715	-1.172	20.803	12.898	1.00	40.29
	349	CA	VAL	Α	715	-0.326	21.415	13.908	1.00	39.63
45	350	С	VAL	Α	715	-0.962	21.201	15.273	1.00	36.62
	351	0	VAL	Α	715	-0.266	20.874	16.244	1.00	30.18
	352	СВ	VAL	Α	715	-0.101	22.918	13.620	1.00	38.77
	353	CG1	VAL	Α	715	0.500	23.617	14.820	1.00	30.17
50	354	CG2	VAL	Α	715	0.857	23.048	12.463	1.00	40.69
	355	N	VAL	Α	716	-2.286	21.329	15.331	1.00	28.64
	356	CA	VAL	Α	716	-2.994	21.113	16.570	1.00	28.84
55	357	С	VAL	Α	716	-2.687	19.683	17.037	1.00	36.83
	358	0	VAL	Α	716	-2.078	19.485	18.092	1.00	36.70
	359	СВ	VAL	Α	716	-4.508	21.331	16.403	1.00	34.61

TABLE 9 (continued)

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-	THREE-DIMENS	SIONAL COOL	RDINA	TES OF	AR IN COM	PLEX WIT	H THE LIGA	ND R188	31
ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
360	CG1	VAL	A	716	-5.239	20.839	17.647	1.00	29.84
361	CG2	VAL	Α	716	-4.805	22.811	16.185	1.00	32.32
362	N	LYS	Α	717	-2.972	18.709	16.179	1.00	38.71
363	CA	LYS	Α	717	-2.737	17.313	16.505	1.00	32.14
364	С	LYS	Α	717	-1.263	16.990	16.699	1.00	32.82
365	0	LYS	Α	717	-0.920	16.262	17.631	1.00	34.86
366	СВ	LYS	Α	717	-3.370	16.410	15.450	1.00	32.30
367	CG	LYS	Α	717	-4.890	16.352	15.569	1.00	38.88
368	CD	LYS	Α	717	-5.538	15.584	14.436	0.00	36.05
369	CE	LYS	Α	717	-7.009	15.353	14.736	0.00	36.14
370	NZ	LYS	Α	717	-7.739	14.704	13.619	0.00	35.32
371	N	TRP	Α	718	-0.383	17.589	15.893	1.00	31.69
372	CA	TRP	Α	718	1.058	17.319	16.010	1.00	34.84
373	С	TRP	Α	718	1.604	17.753	17.367	1.00	44.15
374	0	TRP	Α	718	2.347	17.014	18.020	1.00	48.94
375	СВ	TRP	Α	718	1.850	17.995	14.883	1.00	25.87
376	CG	TRP	Α	718	3.343	18.092	15.136	1.00	25.59
377	CD1	TRP	Α	718	4.279	17.133	14.909	1.00	35.87
378	CD2	TRP	Α	718	4.055	19.232	15.641	1.00	30.45
379	NE1	TRP	Α	718	5.533	17.598	15.237	1.00	32.13
380	CE2	TRP	Α	718	5.419	18.889	15.689	1.00	30.51
381	CE3	TRP	Α	718	3.672	20.519	16.046	1.00	32.20
382	CZ2	TRP	Α	718	6.403	19.782	16.119	1.00	32.90
383	CZ3	TRP	Α	718	4.650	21.408	16.468	1.00	25.41
384	CH2	TRP	Α	718	5.997	21.036	16.503	1.00	28.69
385	N	ALA	Α	719	1.242	18.973	17.764	1.00	56.34
386	CA	ALA	Α	719	1.654	19.580	19.037	1.00	52.43
387	C	ALA	Α	719	1.176	18.846	20.305	1.00	47.73
388	0	ALA	Α	719	1.968	18.662	21.246	1.00	46.60
389	СВ	ALA	Α	719	1.214	21.043	19.073	1.00	48.46
390	N	LYS	Α	720	-0.107	18.461	20.337	1.00	42.77
391	CA	LYS	Α	720	-0.697	17.744	21.478	1.00	45.06
392	С	LYS	Α	720	-0.019	16.386	21.772	1.00	47.46
393	0	LYS	Α	720	-0.227	15.789	22.835	1.00	50.10
394	СВ	LYS	Α	720	-2.218	17.567	21.294	1.00	39.13
395	CG	LYS	Α	720	-3.057	18.632	21.979	1.00	45.90
396	CD	LYS	Α	720	-4.533	18.253	22.075	1.00	55.06

	T	HREE-DIMENS	SIONAL COO	RDINA	res of A	AR IN COM	IPLEX WIT	H THE LIGA	ND R188	31
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	397	CE	LYS	Α	720	-5.236	19.088	23.161	1.00	63.65
	398	NZ	LYS	Α	720	-6.668	18.719	23.402	1.00	62.72
	399	N	ALA	Α	721	0.810	15.926	20.842	1.00	40.80
10	400	CA	ALA	Α	721	1.524	14.671	20.995	1.00	41.77
	401	С	ALA	Α	721	2.991	14.884	21.346	1.00	41.79
	402	0	ALA	Α	721	3.762	13.931	21.370	1.00	43.57
45	403	СВ	ALA	Α	721	1.410	13.840	19.710	1.00	45.25
15	404	N	LEU	A	722	3.382	16.131	21.585	1.00	40.71
	405	CA	LEU	Α	722	4.764	16.438	21.927	1.00	34.69
	406	C	LEU	A	722	5.115	16.085	23.369	1.00	33.82
20	407	0	LEU	Α	722	4.301	16.249	24.281	1.00	34.39
	408	СВ	LEU	Α	722	5.058	17.911	21.665	1.00	32.26
	409	CG	LEU	Α	722	5.357	18.244	20.218	1.00	33.93
ae	410	CD1	LEU	Α	722	5.226	19.728	20.021	1.00	43.98
25	411 1	CD2	LEU	Α	722	6.753	17.784	19.880	1.00	30.81
	412	N	PRO	Α	723	6.338	15.589	23.592	1.00	37.66
	413	CA	PRO	Α	723	6.820	15.209	24.917	1.00	35.69
30	414	С	PRO	Α	723	6.724	16.368	25.893	1.00	39.06
	415	0	PRO	Α	723	7.512	17.304	25.833	1.00	39.26
	416	СВ	PRO	Α	723	8.285	14.855	24.662	1.00	34.40
35	417	CG	PRO	Α	723	8.272	14.339	23.283	1.00	36.44
33	418	CD	PRO	Α	723	7.354	15.282	22.562	1.00	41.22
	419	N	GLY	Α	724	5.780	16.284	26.812	1.00	39.75
ĺ	420	CA	GLY	Α	724	5.652	17.336	27.794	1.00	34.24
40	421	С	GLY	Α	724	4.544	18.311	27.480	1.00	36.36
	422	0	GLY	Α	724	3.911	18.837	28.398	1.00	37.90
	423	N	PHE	Α	725	4.212	18.465	26.201	1.00	32.86
45	424	CA	PHE	Α	725	3.192	19.422	25.845	1.00	36.30
	425	С	PHE	Α	725	1.899	19.385	26.620	1.00	41.59
	426	0	PHE	Α	725	1.385	20.441	27.002	1.00	44.02
	427	СВ	PHE	Α	725	2.842	19.365	24.383	1.00	32.46
50	428	CG	PHE	Α	725	1.928	20.474	23.958	1.00	37.13
	429	CD1	PHE	Α	725	2.453	21.687	23.542	1.00	37.70
	430	CD2	PHE	Α	725	0.544	20.302	23.948	1.00	39.17
55	431	CE1	PHE	Α	725	1.618	22.717	23.107	1.00	36.54
	432	CE2	PHE	Α	725	-0.308	21.331	23.513	1.00	39.69
	433	CZ	PHE	Α	725	0.233	22.540	23.089	1.00	42.41

		HREE-DIMENS	IONAL COOF			R IN COMF	LEX WITH	THE LIGAN	D R1881	
	T	ATOM TYPE	RESIDUE	#	x	Y	Z	осс	В	ATOM
5	ATOM 434	N	ARG	A	726	1.335	18.189	26.791	1.00	49.80
		CA	ARG	Α	726	0.050	18.042	27.489	1.00	49.46
	435	C	ARG	A	726	0.057	18.304	28.995	1.00	52.43
	436	0	ARG	A	726	-0.978	18.139	29.644	1.00	52.56
10	437	СВ	ARG	A	726	-0.652	16.709	27.154	1.00	44.05
	438	CG	ARG	A	726	-1.692	16.821	26.023	1.00	44.55
	439	CD	ARG	Α	726	-2.598	15.606	26.003	1.00	48.35
15	440	NE NE	ARG	A	726	-3.771	15.752	25.130	1.00	56.42
	441	CZ	ARG	A	726	-5.040	15.569	25.526	1.00	62.91
	442		ARG	A	726	-5.323	15.249	26.799	1.00	55.81
	443	NH1	ARG	A	726	-6.028	15.649	24.632	1.00	55.35
20	444	NH2	ASN	A	727	1.213	18.685	29.551	1.00	53.84
	445	N	 	+ ^ -	727	1.292	19.018	30.969	1.00	58.03
	446	CA	ASN		727	1.026	20.528	31.138	1.00	61.72
25	447	C	ASN	A	727	0.723	20.993	32.248	1.00	65.35
	448	0	ASN	A	727	2.636	18.589	31.604	1.00	63.66
	449	СВ	ASN		727	3.777	19.597	31.388	1.00	67.51
	450	CG	ASN	A	727	4.837	19.234	30.881	1.00	68.14
30	451	OD1	ASN	A	727	3.606	20.828	31.864	1.00	73.64
	452	ND2	ASN	A	 	1.190	21.288	30.047	1.00	59.72
	453	N	LEU	A	728	0.957	22.739	30.035	1.00	50.93
35	454	CA	LEU	A	728 728	-0.520	23.033	30.227	1.00	47.17
	455	C	LEU		728	-1.365	22.247	29.822	1.00	45.55
	456	0	LEU	A A	728	1.369	23.348	28.695	1.00	54.70
	457	СВ	LEU	A		2.822	 	28.228	1.00	52.07
40	458	CG	LEU	A	728	2.808	24.029	26.844	1.00	45.38
	459	CD1	LEU		728	3.700	+	29.181	1.00	47.21
	460	CD2	LEU	_ A	728	-0.841	24.201	30.763	1.00	45.54
45	461	N	HIS	A	729	-2.231		30.986	1.00	44.10
	462	CA	HIS	_ A	729	-2.972		29.655	1.00	40.23
	463	C	HIS	A	729	-2.421		28.658	1.00	44.09
	464	0	HIS	A	729	-2.328		31.716	1.00	54.55
50	465	СВ	HIS	A	729	-2.320		32.119	1.00	+
	466		HIS	_ A	729			+	1.00	
	467	ND1	HIS	A	729				1.00	
55	468	CD2	HIS	A	729		+		1.00	
-	469	CE1	HIS	A	729			 	1.00	+
	470	NE2	HIS	A	729	-5.861	26.678	32.230	1.00	1

TABLE 9 (continued)

		THREE-DIMENS	SIONAL COO	RDINA	res of A	AR IN COM	IPLEX WIT	H THE LIGA	ND R188	31
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	471	N	VAL	Α	730	-4.224	24.116	29.653	1.00	39.50
	472	CA	VAL	Α	730	-5.024	24.042	28.433	1.00	42.50
	473	С	VAL	Α	730	-5.016	25.262	27.563	1.00	45.07
10	474	0	VAL	Α	730	-4.893	25.178	26.339	1.00	50.12
	475	СВ	VAL	Α	730	-6.500	23.653	28.710	1,00	50.67
	476	CG1	VAL	Α	730	-7.044	24.387	29.936	1.00	48.50
45	477	CG2	VAL	Α	730	-7.367	23.960	27.478	1.00	50.44
15	478	N	ASP	Α	731	-5.249	26.399	28.185	1.00	51.13
	479	CA	ASP	Α	731	-5.269	27.646	27.453	1.00	51.89
	480	С	ASP	Α	731	-3.856	27.909	26.971	1.00	46.10
20	481	0	ASP	Α	731	-3.663	28.213	25.810	1.00	51.50
	482	СВ	ASP	Α	731	-5.820	28.755	28.338	1.00	51.89
	483	CG	ASP	Α	731	-7.194	28.415	28.872	1.00	59.37
25	484	OD1	ASP	A	731	-8.065	28.082	28.030	1.00	56.09
23	485	OD2	ASP	Α	731	-7.373	28.414	30.122	1.00	61.65
	486	N	ASP	Α	732	-2.862	27.675	27.814	1.00	37.19
	487	CA	ASP	Α	732	-1.482	27.861	27.392	1.00	37.51
30	488	С	ASP	Α	732	-1.177	26.934	26.232	1.00	39.98
	489	0	ASP	Α	732	-0.398	27.268	25.351	1.00	44.52
	490	СВ	ASP	Α	732	-0.516	27.597	28.536	1.00	40.29
35	491	CG	ASP	Α	732	-0.523	28.713	29.565	1.00	51.89
	492	OD1	ASP	Α	732	-1.171	29.755	29.313	1.00	56.09
	493	OD2	ASP	Α	732	0.116	28.562	30.631	1.00	59.50
	494	N	GLN	Α	733	-1.819	25.776	26.213	1.00	46.01
40	495	CA	GLN	Α	733	-1.621	24.832	25.131	1.00	48.12
	496	С	GLN	Α	733	-2.183	25.485	23.884	1.00	48.61
	497	0	GLN	Α	733	-1.531	25.558	22.854	1.00	51.31
45	498	СВ	GLN	Α	733	-2.421	23.563	25.364	1.00	52.94
	499	CG	GLN	Α	733	-1.791	22.511	26.234	1.00	52.25
	500	CD	GLN	Α	733	-2.659	21.287	26.227	1.00	53.92
	501	OE1	GLN	Α	733	-3.252	20.925	27.238	1.00	59.82
50	502	NE2	GLN	Α	733	-2.836	20.701	25.051	1.00	55.07
	503	N	MET	Α	734	-3.416	25.952	23.993	1.00	48.02
	504	CA	MET	Α	734	-4.107	26.588	22.887	1.00	50.74
55	505	С	MET	Α	734	-3.448	27.904	22.453	1.00	50.43
	506	0	MET	A	734	-3.495	28.269	21.286	1.00	53.47
;	507	СВ	MET	Α	734	-5.545	26.832	23.297	1.00	56.63

	TABLE 9 (continued) THREE-DIMENSIONAL COORDINATES OF AR IN COMPLEX WITH THE LIGAND R1881 ATOM ATOM TYPE RESIDUE # X Y Z OCC B ATOM													
	<u> </u>						Z	осс	В	ATOM				
_	ATOM				734	-6.530	26.884	22.158	1.00	71.95				
5	508	CG	MET	A	734	-8.226	26.806	22.797	1.00	94.18				
	509	SD	MET	A	734	-7.929	26.442	24.662	1.00	83.04				
	510	CE	MET	A	735	-2.779	28.577	23.384	1.00	49.75				
10	511 1	N	ALA	A	735	-2.115	29.844	23.109	1.00	43.40				
	512	CA	ALA	A	735	-0.820	29.686	22.305	1.00	43.42				
	513	C	ALA	A	735	-0.749	30.185	21.185	1.00	51.41				
45	514	0	ALA	A .	735	-1.845	30.602	24.406	1.00	36.08				
15	515	СВ	ALA	A		0.198	29.002	22.832	1.00	38.22				
	516	N	VAL	A	736	1.441	28.866	22.066	1.00	36.45				
	517	CA	VAL	A	736		28.345	20.651	1.00	36.01				
20	518	С	VAL	A	736	1.210	28.655	19.747	1.00	41.42				
	519	0	VAL	A	736	1.982	28.000	22.764	1.00	35.87				
	520	СВ	VAL	A	736	2.502	28.714	23.978	1.00	44.32				
	521	CG1	VAL	_ A_	736	3.048	26.673	23.156	1.00	36.64				
25	522	CG2	VAL	A	736	1.924	27.585	20.465	1.00	30.08				
	523	N	ILE	A	737	0.132	 	19,150	1.00	31.25				
	524	CA	ILE	Α_	737	-0.220	27.048	18.241	1.00	32.22				
30	525	С	ILE	A	737	-0.623		17.222	1.00	40.26				
	526	0	ILE	A	737	0.022	 	19.250	1.00	32.49				
	527	СВ	ILE	A	737	-1.361		 	1.00	36.28				
	528	CG1	ILE	A	737	-0.781		19.749	1.00	22.38				
35	529	CG2	ILE	A	737	-2.061		17.907	1.00	39.52				
	530	CD1	ILE	A	737	-1.792		20.422	1.00	34.76				
	531	N	GLN	A	738	-1.657	-	18.636	1.00	36.96				
40	532	CA	GLN	A	738	_+		17.857	1.00	38.78				
	533	С	GLN	A	738				1.00	47.01				
	534	0	GLN	A	738				1.00	35.31				
	535	СВ	GLN	A	738				1.00	 				
45	536	CG	GLN	A	738				1.00					
	537	CD	GLN	A	738	-5.56			+-					
	538	OE1	GLN	A	738			+	1.00					
50	539	NE2	GLN	Α	738	-6.86			1.00	 				
	540	N	TYR	A	739	-0.20			1.00	+				
	541	CA	TYR	Α	739	0.86			1.00					
	542	С	TYR	Α	739	1.97			1.00					
55	543	0	TYR	P	739	9 2.50	_+		1.00					
	544	СВ	TYR	1	73	9 1.49	6 32.82	1 19.735	1.00	36.60				

TABLE 9 (continued)

	THREE-DIMENSIONAL COORDINATES OF AR IN COMPLEX WITH THE LIGAND R1881 ATOM ATOM TYPE RESIDUE # X Y Z OCC B ATOM											
	ATOM	ATOM TYPE	RESIDUE	#	X	Υ	Z	occ	В	ATOM		
5	545	CG	TYR	Α	739	0.565	33.487	20.754	1.00	41.72		
	546	CD1	TYR	Α	739	-0.515	34.267	20.358	1.00	43.18		
	547	CD2	TYR	Α	739	0.736	33.272	22.126	1.00	44.87		
10	548	CE1	TYR	Α	739	-1.416	34.803	21.303	1.00	43.31		
	549	CE2	TYR	Α	739	-0.163	33.808	23.073	1.00	39.98		
	550	CZ	TYR	Α	739	-1.239	34.561	22.649	1.00	38.00		
	551	ОН	TYR	Α	739	-2.178	35.014	23.556	1.00	54.08		
15	552	N	SER	Α	740	2.351	30.606	17.674	1.00	36.52		
	553	CA	SER	Α	740	3.459	30.114	16.875	1.00	38.17		
	554	С	SER	Α	740	3.129	29.453	15.535	1.00	38.14		
20	555	0	SER	Α	740	4.024	29.259	14.706	1.00	41.67		
	556	СВ	SER	A	740	4.390	29.231	17.727	1.00	42.37		
	557	OG	SER	Α	740	3.756	28.053	18.200	1.00	39.05		
25	558	N	TRP	Α	741	1.851	29.268	15.236	1.00	32.00		
23	559	CA	TRP	Α	741	1.482	28.588	14.004	1.00	32.79		
	560	С	TRP	Α	741	2.099	29.060	12.681	1.00	34.24		
	561	0	TRP	Α	741	2.578	28.250	11.891	1.00	34.43		
30	562	СВ	TRP	Α	741	-0.034	28.446	13.918	1.00	44.21		
	563	CG	TRP	Α	741	-0.733	29.487	13.136	1.00	58.12		
	564	CD1	TRP	Α	741	-0.889	30.806	13.458	1.00	64.16		
35	565	CD2	TRP	Α	741	-1.365	29.303	11.870	1.00	63.13		
	566	NE1	TRP	Α	741	-1.574	31.462	12.462	1.00	67.31		
	567	CE2	TRP	Α	741	-1.882	30.562	11.473	1.00	67.95		
	568	CE3	TRP	Α	741	-1.558	28.194	11.031	1.00	57.71		
40	569	CZ2	TRP	Α	741	-2.561	30.747	10.260	1.00	70.02		
	570	CZ3	TRP	Α	741	-2.232	28.373	9.831	1.00	59.16		
	571	CH2	TRP	Α	741	-2.731	29.642	9.458	1.00	65.30		
45	572	N	MET	Α	742	2.184	30.370	12.489	1.00	41.58		
	573	CA	MET	Α	742	2.749	30.945	11.265	1.00	39.13		
	574	С	MET	Α	742	4.193	30.537	11.090	1.00	30.85		
	575	0	MET	Α	742	4.602	30.115	10.017	1.00	34.78		
50	576	СВ	MET	Α	742	2.689	32.476	11.309	1.00	42.39		
	577	CG	MET	Α	742	3.147	33.177	10.032	1.00	43.70		
	578	SD	MET	Α	742	1.988	32.993	8.658	1.00	45.17		
55	579	CE	MET	Α	742	0.678	34.132	9.133	1.00	22.14		
	580	N	GLY	Α	743	4.954	30.648	12.165	1.00	24.94		
	581	CA	GLY	Α	743	6.367	30.312	12.117	1.00	27.24		

	TABLE 9 (continued) THREE-DIMENSIONAL COORDINATES OF AR IN COMPLEX WITH THE LIGAND R1881 ATOM ATOM TYPE RESIDUE # X Y Z OCC B ATOM													
5	582	C	GLY	A	743	6.630	28.836	11.886	1.00	27.21				
	583	0	GLY	A	743	7.660	28.461	11.322	1.00	27.69				
	584	N	LEU	A	744	5.734	27.983	12.372	1.00	25.91				
		CA	LEU	A	744	5.895	26.550	12.172	1.00	26.90				
10	585 586	C	LEU	A	744	5.632	26.287	10.708	1.00	27.04				
	587	0	LEU	A	744	6.375	25.574	10.048	1.00	31.01				
	588	СВ	LEU	A	744	4.899	25.755	13.018	1.00	25.72				
15	589	CG	LEU	Α	744	5.234	25.626	14.514	1.00	29.11				
	590	CD1	LEU	A	744	4.063	25.022	15.275	1.00	23.25				
	590	CD2	LEU	A	744	6.484	24.771	14.689	1.00	24.15				
	592	N	MET	A	745	4.566	26.886	10.200	1.00	25.67				
20	593	CA	MET	A	745	4.188	26.725	8.803	1.00	23.96				
	594	C	MET	Α	745	5.254	27.179	7.822	1.00	29.61				
	595	0	MET	A	745	5.550	26.480	6.857	1.00	34.60				
25	596	СВ	MET	A	745	2.895	27.454	8.534	1.00	20.46				
	597	CG	MET	A	745	1.730	26.888	9.310	1.00	19.98				
	598	SD	MET	A	745	0.297	27.272	8.341	1.00	43.15				
20	599	CE	MET	A	745	0.642	29.041	8.042	1.00	44.27				
30	600	N	VAL	A	746	5.830	28.341	8.095	1.00	27.98				
	601	CA	VAL	A	746	6.876	28.924	7.288	1.00	24.84				
	602	С	VAL	A	746	8.107	28.051	7.345	1.00	28.42				
35	603	0	VAL	A	746	8.749	27.786	6.333	1.00	37.05				
	604	СВ	VAL	A	746	7.248	30.304	7.835	1.00	31.98				
	605	CG1	VAL	A	746	8.423	30.888	7.073	1.00	29.03				
40	606	CG2	VAL	A	746	6.066	31.196	7.737	1.00	32.19				
	607	N	PHE	A	747	8.439	27.607	8.541	1.00	31.29				
	608	CA	PHE	A	747	9.605	26.765	8.736	1.00	32.19				
	609	С	PHE	A	747	9.468	25.401	8.030	1.00	35.99				
45	610	0	PHE	A	747	10.398	24.916	7.384	1.00	34.95				
	611	СВ	PHE	A	747	9.820	26.536	10.224	1.00	27.90				
	612	CG	PHE	A	747	11.209	26.082	10.573	1.00	26.00				
50	613	CD1	PHE	A	747	12.293	26.915	10.343	1.00	24.54				
	614	CD2	PHE	A	747	11.428	24.846	11.166	1.00	27.23				
	615	CE1	PHE	A	747	13.571	26.532	10.699	1.00	25.88				
	616	CE2	PHE	A	747	12.711	24.451	11.528	1.00	25.61				
55	617	CZ	PHE	A	747	13.785	25.297	11.293	1.00	28.75				
	618	N	ALA	A	748	8.309	24.774	8.171	1.00	35.11				

TABLE 9 (continued)

	1	THREE-DIMENS	SIONAL COOF	RDINA	res of	AR IN COM	IPLEX WIT	H THE LIGA	ND R188	31
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	619	CA	ALA	Α	748	8.096	23.483	7.561	1.00	34.00
	620	С	ALA	Α	748	8.114	23.683	6.054	1.00	37.26
	621	0	ALA	Α	748	8.831	22.973	5.344	1.00	35.87
10	622	СВ	ALA	Α	748	6.773	22.896	8.022	1.00	29.48
	623	N	MET	Α	749	7.385	24.707	5.591	1.00	41.15
	624	CA	MET	Α	749	7.277	25.044	4.167	1.00	33.31
4=	625	C	MET	Α	749	8.647	25.225	3.563	1.00	35.12
15	626	0	MET	Α	749	8.934	24.711	2.491	1.00	37.94
	627	СВ	MET	Α	749	6.444	26.303	3.982	1.00	35.95
	628	CG	MET	Α	749	6.179	26.682	2.542	1.00	45.47
20	629	SD	MET	Α	749	7.444	27.726	1.821	1.00	50.89
	630	CE	MET	Α	749	7.553	28.954	3.104	1.00	55.72
	631	N	GLY	Α	750	9.507	25.929	4.278	1.00	36.97
25	632	CA	GLY	Α	750	10.863	26.138	3.810	1.00	42.04
23	633	С	GLY	Α	750	11.628	24.828	3.715	1.00	43.22
	634	0	GLY	Α	750	12.530	24.678	2.889	1.00	43.48
	635	N	TRP	Α	751	11.304	23.876	4.581	1.00	45.43
30	636	CA	TRP	Α	751	11.976	22.588	4.528	1.00	42.53
	637	С	TRP	Α	751	11.519	21.806	3.294	1.00	43.17
	638	0	TRP	Α	751	12.336	21.207	2.596	1.00	40.24
35	639	СВ	TRP	Α	751	11.717	21.776	5.787	1.00	39.21
33	640	CG	TRP	Α	751	12.359	20.401	5.737	1.00	41.85
	641	CD1	TRP	Α	751	11.736	19.213	5.461	1.00	39.44
	642	CD2	TRP	Α	751	13.743	20.085	5.968	1.00	37.37
40	643	NE1	TRP	Α	751	12.645	18.186	5.516	1.00	42.23
	644	CE2	TRP	Α	751	13.878	18.692	5.821	1.00	41.26
	645	CE3	TRP	Α	751	14.877	20.841	6.275	1.00	41.35
45	646	CZ2	TRP	Α	751	15.110	18.046	5.978	1.00	48.39
-	647	CZ3	TRP	Α	751	16.104	20.195	6.431	1.00	39.62
	648	CH2	TRP	Α	751	16.208	18.817	6.280	1.00	43.38
[649	N	ARG	Α	752	10.214	21.792	3.037	1.00	42.27
50	650	CA	ARG	Α	752	9.683	21.100	1.862	1.00	41.53
	651	С	ARG	Α	752	10.257	21.740	0.602	1.00	44.18
	652	0	ARG	Α	752	10.522	21.048	-0.380	1.00	43.20
55	653	СВ	ARG	Α	752	8.163	21.186	1.800	1.00	42.14
	654	CG	ARG	Α	752	7.441	20.465	2.920	1.00	49.76
	655	CD	ARG	Α	752	5.938	20.434	2.649	1.00	48.23

				IAB	LE9 (C	ontinued)	LEV MITH	THE LIGAN	D B1881	
	Т	HREE-DIMENS	IONAL COOF	DINAT	1		LEX WITH	OCC	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	2.483	1.00	45.23
5	656	NE	ARG	Α	752	5.382	21.773		1.00	52.17
	657	CZ	ARG	Α	752	5.013	22.572	3.490	1.00	33.80
	658	NH1	ARG	Α	752	5.131	22.175	4.764		49.84
10	659	NH2	ARG	Α	752	4.536	23.785	3.223	1.00	38.26
	660	N	SER	Α	753	10.441	23.058	0.624	1.00	35.26
	661	CA	SER	A	753	10.998	23.733	-0.523	1.00	35.66
	662	С	SER	Α	753	12.453	23.400	-0.707	1.00	43.18
15	663	0	SER	Α	753	12.973	23.538	-1.807	1.00	
	664	СВ	SER	Α	753	10.798	25.233	-0.444	1.00	33.49
	665	OG	SER	Α	753	9.414	25.514	-0.453	1.00	36.06
20	666	N	PHE	Α	754	13.113	22.938	0.343	1.00	33.77
20	667	CA	PHE	Α	754	14.523	22.575	0.224	1.00	41.59
	668	С	PHE	A	754	14.709	21.153	-0.316	1.00	49.14
	669	0	PHE	Α	754	15.524	20.919	-1.211	1.00	48.97
25	670	СВ	PHE	Α	754	15.242	22.702	1.564	1.00	39.18
	671	CG	PHE	Α	754	16.668	22.204	1.540	1.00	40.02
	672	CD1	PHE	Α	754	17.596	22.746	0.645	1.00	48.31
30	673	CD2	PHE	Α	754	17.086	21.202	2.423	1.00	36.75
	674	CE1	PHE	A	754	18.923	22.311	0.635	1.00	47.66
	675	CE2	PHE	Α	754	18.411	20.757	2.432	1.00	41.02
	676	CZ	PHE	Α	754	19.333	21.313	1.532	1.00	50.13
35	677	N	THR	Α	755	13.948	20.208	0.225	1.00	53.24
	678	CA	THR	Α	755	14.053	18.818	-0.197	1.00	53.33
	679	С	THR	Α	755	13.287	18.474	-1.478	1.00	54.87
40	680	0	THR	Α	755	13.554	17.431	-2.068	1.00	57.41
	681	СВ	THR	Α	755	13.596	17.830	0.934	1.00	45.98
	682	OG1	THR	Α	755	12.221	18.055	1.245	1.00	49.35
	683	CG2	THR	А	755	14.405	18.033	2.190	1.00	40.03
45	684	N	ASN	Α	756	12.360	19.336	-1.911	1.00	52.97
	685	CA	ASN	A	756	11.539	19.044	-3.097	1.00	56.15
	686		ASN	А	756	11.821	19.826	-4.394	1.00	55.33
50	687		ASN	A	756	11.705	19.257	-5.481	1.00	54.81
	688		ASN	A	756	10.019	19.124	-2.769	1.00	60.43
	689		ASN	A	756	9.504	17.959	-1.869	1.00	
	690		ASN	A	756	10.123	16.909	-1.763	1.00	
55	691		ASN	A	756	8.354	18.169	-1.234	1.00	
	692		VAL	A	757	12.15	5 21.115	-4.293	1.00	54.53

TABLE 9 (continued)

	٦ ٦	THREE-DIMENS	SIONAL COOF	RDINA	res of A	AR IN COM	PLEX WIT	H THE LIGAN	ND R188	31
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	693	CA	VAL	Α	757	12.427	21.962	-5.470	1.00	50.64
	694	С	VAL	Α	757	13.732	22.776	-5.370	1.00	47.30
	695	0	VAL	Α	757	13.903	23.786	-6.053	1.00	48.03
10	696	СВ	VAL	Α	757	11.239	22.943	-5.756	1.00	50.94
	697	CG1	VAL	Α	757	9.927	22.177	-5.892	1.00	53.22
	698	CG2	VAL	Α	757	11.125	23.998	-4.660	1.00	54.28
45	699	N	ASN	Α	758	14.676	22.274	-4.582	1.00	53.28
15	700	CA	ASN	Α	758	15.977	22.917	-4.340	1.00	61.04
	701	С	ASN	Α	758	15.937	24.448	-4.140	1.00	63.53
	702	0	ASN	Α	758	16.674	25.191	-4.802	1.00	65.98
20	703	СВ	ASN	Α	758	17.026	22.499	-5.388	1.00	63.98
	704	CG	ASN	Α	758	18.440	22.442	-4.813	1.00	62.08
	705	OD1	ASN	Α	758	18.681	22.852	-3.679	0.00	62.62
25	706	- ND2	ASN	Α	758	19.369	21.908	-5.590	0.00	62.48
25	707	N	SER	Α	759	14.999	24.879	-3.281	1.00	63.72
	708	CA	SER	Α	759	14.763	26.267	-2.849	1.00	61.29
	709	С	SER	Α	759	14.379	27.351	-3.849	1.00	66.13
30	710	0	SER	Α	759	14.067	28.472	-3.443	1.00	71.37
	711	СВ	SER	Α	759	15.939	26.770	-1.995	1.00	60.64
	712	OG	SER	Α	759	16.080	26.018	-0.799	1.00	55.92
35	713	N	ARG	Α	760	14.388	27.045	-5.140	1.00	64.35
00	714	CA	ARG	Α	760	14.041	28.064	-6.109	1.00	59,78
	715	С	ARG	Α	760	12.551	28.416	-6.070	1.00	55.67
	716	0	ARG	Α	760	12.186	29.563	-6.345	1.00	60.84
40	717	СВ	ARG	Α	760	14.492	27.658	-7.507	1.00	69.19
	718	CG	ARG	Α	760	14.046	26.283	-7.883	1.00	73.58
	719	CD	ARG	Α	760	13.925	26.094	-9.381	1.00	78.27
45	720	NE	ARG	Α	760	13.214	24.847	-9.635	1.00	80.85
	721	CZ	ARG	Α	760	13.642	23.646	-9.246	1.00	80.46
	722	NH1	ARG	Α	760	14.801	23.528	-8.597	1.00	79.19
	723	NH2	ARG	Α	760	12.853	22.584	-9.388	1.00	76.84
50	724	N	MET	Α	761	11.701	27.453	-5.707	1.00	46.97
	725	CA	MET	Α	761	10.256	27.695	-5.622	1.00	41.01
	726	С	MET	Α	761	9.744	27.418	-4.222	1.00	37.53
55	727	0	MET	Α	761	10.451	26.824	-3.412	1.00	38.47
	728	СВ	MET	Α	761	9.496	26.827	-6.612	1.00	38.49
	729	CG	MET	Α	761	9.926	27.040	-8.034	1.00	42.52

TABLE 9 (continued)

					T/	ABLE	9 (cc	ontinu	ed)	LEV	WITH 7	HE LIGANI	 R18	81	
Γ	TI	IONAL COORDINAT			TES	ES OF AR IN		JOMP	Z		occ	CC B		ОМ	
-	ATOM	ATOM TYPE	RES	ESIDUE #		-	X	Y	981	25.994		-9.104			0.12
5	730	SD	М	ET	<u>A</u>	-	761		000		558	-9.111			3.61
	731	CE	М	ET	<u> </u>		761		526	27.860		-3.930	1.00	3	35.00
10	732	N	L	EU	Α		762		949		.638	-2.614	1.00	, ;	36.81
	733	CA		LEU /		\dashv	762		902	26.548		-2.664	1.00	, ,	41.13
	734	С	L	.EU	A		762		.821	26.739		-3.243	1.00)	36.62
ļ	735	0		.EU	A		762		.344	00.010		-2.048	1.00		39.16
15	736	СВ	L	_EU			762		.366			-1.827	1.0	0	43.49
	737	CG	1	LEU 	A	-+-	762	<u> </u>		31.178		-1.169	1.0	0	45.89
	738	738 CD1		LEU	A	`-	762		7.670	├ ─	9.530	-0.952	1.0	0	44.69
20	739	CD2		LEU 	F	1	762	├ ─	9.498	╀-	5.419	-2.033	1.0	0	44.41
	740	N		TYR	1	1	763	┼	7.245		4.209	-1.963	1.0	00	39.75
	741	CA		TYR	7 A		763 	┼	6.422		4.241	-0.839	1.0	00	36.53
	742	С		TYR		A	763 	┿	5.412	+-	23.487	0.129	1.0	00	36.31
25	743	743 O		TYR		A	763 		5.504	+		-1.831	1.	00	47.60
	744	СВ		TYR		A	763	4-	7.323	+-	22.968	2 200		00	61.61
		745 CG		TYR	3		763		6.713		21.644	-1.579	-	.00	67.78
30	746			TYR		Α	763		5.701	-	21.002	-3.476		.00	62.67
		747 CD2		TYR		Α	763		7.174		21.015	-1.998		.00	63.34
		748 CE1		TYR		Α	763		5.164	-	19.770	-3.897		.00	59.80
	<u> </u>	749 CE2		TYR		Α	763			9	19.778	ļ		.00	62.05
35		750 CZ		TYR		Α	763		5.63			-3.149		.00	63.40
	751			TYR		Α	763	3	5.06			-3.558	1.00		37.20
		752 N		PHE		Α	764	4			25.130	-0.958	1.00		38.87
40	 	753 CA		PHE		Α	764	4			25.221	0.042			47.03
	75		-	PHE		Α	76	4	2.68			1.000	1.00		48.96
	75		-+	PHE	PHE		76	4	2.50)6	23.333		1.00		34.03
45	75			PHE		Α	76	34 2.4		41	26.350	2.005			29.36
	75			PHE		Α	76	4	3.048		27.695				32.46
	75	001		PHE		Α	764		3.571		28.142				37.55
	75	000	-+	PHE		Α	76	64	3.129		28.510				35.80
50		50 CE1		PHE		Α	70	64	4.1	169 29.3		<u>-</u>			39.6
	 		PHE				7	64	3.7	27	29.75		+	1.00	1-00 5
	-	761 CE2		PHE		A	7	64	4.2	247 30.1					
							7	65	2.314		23.28				
	<u> </u>	763 N		ALA		A	7	65	1.608		21.99				
55			AL				7	765	1.9		21.34	<u> </u>	-2.386		
	100			ALA		1	1 7	765	2.449		22.02	.022 -3.289		1.00	31.
		766													

TABLE 9 (continued)

-	THREE-DIMENS	r – – – –	RDINA						_
ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ΑT
767	СВ	ALA	Α	765	0.105	22.232	-0.959	1.00	4
768	N	PRO	Α	766	1.766	20.021	-2.533	1.00	5
769	CA	PRO	Α	766	2.120	19.407	-3.813	1.00	5
770	С	PRO	Α	766	1.359	20.040	-4.970	1.00	4
771	0	PRO	Α	766	1.893	20.144	-6.082	1.00	4
772	СВ	PRO	Α	766	1.721	17.949	-3.604	1.00	5
773	CG	PRO	Α	766	1.899	17.761	-2.133	1.00	5
774	CD	PRO	Α	766	1.237	19.002	-1.617	1.00	5
775	N	ASP	Α	767	0.128	20.479	-4.707	1.00	4
776	CA	ASP	Α	767	-0.681	21.119	-5.743	1.00	4
777	С	ASP	Α	767	-0.774	22.666	-5.645	1.00	5
778	0	ASP	Α	767	-1.618	23.311	-6.292	1.00	5
779	СВ	ASP	Α	767	-2.073	20.485	-5.785	1.00	4
780	CG	ASP	Ą	767	-2.833	20.667	-4.505	1.00	5
781	OD1	ASP	A	767	-2.205	20.619	-3.431	1.00	5
782	OD2	ASP	Α	767	-4.071	20.839	-4.573	1.00	5
783	N	LEU	Α	768	0.148	23.255	-4.893	1.00	4
784	CA	LEU	Α	768	0.196	24.697	-4.719	1.00	4
785	С	LEU	Α	768	1.658	25.080	-4.564	1.00	4
786	0	LEU	Α	768	2.141	25.212	-3.436	1.00	5
787	СВ	LEU	Α	768	-0.574	25.108	-3.450	1.00	5
788	CG	LEU	Α	768	-0.631	26.580	-3.002	1.00	5
789	CD1	LEU	Α	768	-1.328	27.390	-4.062	1.00	4
790	CD2	LEU	Α	768	-1.376	26.701	-1.702	1.00	4
791	N	VAL	Α	769	2.387	25.176	-5.676	1.00	4
792	CA	VAL	Α	769	3.796	25.575	-5.620	1.00	4
793	С	VAL	Α	769	3.954	26.933	-6.287	1.00	4
794	0	VAL	Α	769	3.352	27.190	-7.335	1.00	4
795	СВ	VAL	Α	769	4.728	24.572	-6.321	1.00	5
796	CG1	VAL	Α	769	6.181	25.049	-6.216	1.00	5
797	CG2	VAL	Α	769	4.581	23.208	-5.687	1.00	5
798	N	PHE	Α	770	4.734	27.808	-5.668	1.00	4
799	CA	PHE	Α	770	4.935	29.124	-6.230	1.00	4
800	С	PHE	Α	770	6.179	29.276	-7.044	1.00	3
801	0	PHE	Α	770	7.291	29.151	-6.531	1.00	3
802	СВ	PHE	Α	770	4.939	30.197	-5.147	1.00	4
803	CG	PHE	Α	770	3.582	30.650	-4.753	1.00	3

				TA	SLE 9	(con	tinued)	ı F	x WITH	THE LIGANI	D R18	381	
	TI	HREE-DIMENS					Y		z	occ	В	A	гом
	ATOM	ATOM TYPE	RESIDUE	#	X		2.489		.803	-4.896	1.00	1	0.94
	804	CD1	PHE		77		3.391		.916	-4.220	1.00		35.47
	805	CD2	PHE	A	77	-+-	1.216		.208	-4.515	1.00	, ;	39.80
	806	CE1	PHE	A	77		2.123		2.332	-3.834	1.00) :	37.83
0	807	CE2	PHE	A	77		1.027		.476	-3.980	1.00	5	36.48
	808	CZ	PHE	A	77			-	9.397	-8.345	1.00	5	38.22
	809	N	ASN	A	77		5.988 7.113	<u> </u>	9.673	-9.219	1.0	0	39.10
	810	CA	ASN	A	+	71		_	1.196	-9.066	1.0	0	43.17
15	811	С	ASN	A	+	71	7.181	-	1.785	-8.345	1.0	0	39.83
	812	0	ASN	A		71	6.341	-	9.268	-10.685	1.0	0	33.28
	813	СВ	ASN	A		71	6.834	┼	9.492	-11.110	1.0	00	35.37
20	814	CG	ASN	A		71	5.384	+-	0.309	-10.546	1.0	00	45.29
	815	OD1	ASN	A		71	4.656	+-	28.737	-12.094	1.0	00	41.79
	816	ND2	ASN	A	-1-	771	4.956	+-	31.836	-9.694	1.0	00	43.13
	817	N	GLU	A		772	8.166	4	33.285	-9.605	1.	00	42.44
25	818	CA	GLU	A		772	8.264	+		-10.136	+-	00	45.81
	819	С	GLU	A		772	7.015	+	33.997	-9.579		00	53.45
	820	0	GLU	_ \ A		772	6.615	+-	35.016	-10.274		.00	52.58
30	821	СВ	GLU	A		772	9.541	+	33.815	-9.401	—	.00	58.43
	822	CG	GLU	Α		772	10.814	+	33.657	-9.483		.00	56.79
	823	CD	GLU	1	\	772	11.791	+	34.850	-10.434		.00	55.14
	824	OE1	GLU	1		772	11.719		35.655	-8.583		.00	61.19
35	825	OE2	GLU	/	1	772	12.65	-+	34.974	-11.157	-	.00	39.45
	826	N	TYR		4	773	6.35	4	33.454	 		.00	38.06
	827	CA	TYR		A	773	5.14	7	34.117	-11.659	_	1.00	38.71
40	828		TYR		A	773	4.08	-+	34.215			1.00	41.42
.•	829		TYR		Α	773	3.49	+	35.271	-10.391		1.00	37.63
	830		TYR		Α	773	4.56		33.425			1.00	38.44
	83		TYR		Α	773	3.26	-	34.033	11.050	-+-	1.00	36.94
45	832		TYR		Α	773	3.24	48	35.277			1.00	40.9
	83		TYR		Α	773	2.04	43	33.397		\dashv	1.00	34.34
	83		TYR		Α	773	2.0	38	35.883			1.00	46.9
50	83		TYR		Α	773	0.8	33	33.990		-+		42.8
	83	07	TYF		Α	773	0.8	35	35.23		-+	1.00	42.1
	83	011	TYF	1	Α	773	-0.3	61	35.82			1.00	43.5
	83	<u> </u>	ARC	3	Α	774	3.8	364	33.13		-	1.00	+
55	\	39 CA	ARC	3	Α	774	2.8	363	33.14		-	1.00	
		40 C	ARG	3	Α	774	3.2	216	34.03	-7.578	5	1.00	41.0

TABLE 9 (continued)

	7	THREE-DIMENS	SIONAL COOL	RDINA	res of	AR IN COM	IPLEX WIT	TH THE LIGA	ND R188	31
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
	841	0	ARG	Α	774	2.330	34.701	-7.032	1.00	43.75
	842	СВ	ARG	Α	774	2.580	31.748	-8.252	1.00	46.64
	843	CG	ARG	Α	774	1.421	31.121	-8.923	1.00	45.32
'	844	CD	ARG	Α	774	1.735	29.667	-9.102	1.00	47.16
	845	NE	ARG	Α	774	0.588	28.968	-9.642	1.00	43.73
	846	CZ	ARG	Α	774	0.344	27.682	-9.445	1.00	41.94
	847	NH1	ARG	Α	774	1.183	26.954	-8.717	1.00	42.65
	848	NH2	ARG	Α	774	-0.753	27.136	-9.952	1.00	39.92
	849	N	MET	Α	775	4.486	34.023	-7.168	1.00	34.68
	850	CA	MET	Α	775	4.955	34.877	-6.069	1.00	38.36
	851	С	MET	Α	775	4.496	36.328	-6.332	1.00	41.88
	852	0	MET	Α	775	4.119	37.065	-5.416	1.00	41.28
	853	СВ	MET	Α	775	6.485	34.839	-5.975	1.00	33.18
	854	CG	MET	Α	775	7.046	33.622	-5.276	1.00	24.32
	855	SD	MET	Α	775	8.813	33.416	-5.539	1.00	40.19
	856	CE	MET	Α	775	9.443	34.965	-4.970	1.00	48.34
	857	N	HIS	Α	776	4.484	36.695	-7.608	1.00	46.87
	858	CA	HIS	Α	776	4.065	38.006	-8.065	1.00	41.06
	859	С	HIS	Α	776	2.568	38.136	-8.311	1.00	43.18
	860	0	HIS	Α	776	1.969	39.153	-7.991	1.00	48.98
	861	СВ	HIS	Α	776	4.804	38.351	-9.348	1.00	45.79
	862	CG	HIS	Α	776	4.486	39.712	-9.873	1.00	44.99
	863	ND1	HIS	Α	776	3.327	39.992	-10.560	1.00	46.34
	864	CD2	HIS	Α	776	5.167	40.879	-9.788	1.00	44.43
	865	CE1	HIS	Α	776	3.300	41.270	-10.877	1.00	44.55
	866	NE2	HIS	Α	776	4.406	41.833	-10.419	1.00	49.86
	867	N	LYS	Α	777	1.964	37.143	-8.938	1.00	46.29
	868	CA	LYS	Α	777	0.542	37.214	-9.220	1.00	48.46
	869	С	LYS	Α	777	-0.276	37.241	-7.920	1.00	49.12
ļ	870	0	LYS	Α	777	-1.356	37.835	-7.869	1.00	53.96
	871	СВ	LYS	Α	777	0.128	36.042	-10.126	1.00	50.10
	872	CG	LYS	Α	777	-1.193	36.233	-10.872	1.00	58.08
	873	CD	LYS	Α	777	-1.161	37.460	-11.791	1.00	65.16
	874	CE	LYS	Α	777	-2.090	38.590	-11.301	1.00	75.26
	875	NZ	LYS	Α	777	-3.524	38.363	-11.635	1.00	77.33
	876	N	SER	Α	778	0.249	36.616	-6.870	1.00	50.25
	877	CA	SER	Α	778	-0.432	36.551	-5.571	1.00	48.63

				TA	BLE	9 (00	ontinue	MPI	FX WIT	H THE	LIGAN	D R18	81	
	T	HREE-DIMENS	IONAL COO		TES	OF AF	Y	JIVIE	Z	0	cc	В	AT	ОМ
ł	ATOM	ATOM TYPE	RESIDUE	#	+	× +	-0.19	2	37.808	-4.	756	1.00	5	3.35
5	878	С	SER	A	+	78	-0.19		38.019	-3.	727	1.00	5	7.00
	879	0	SER	A	-	78	0.02	-	35.397	├ ──	761	1.00	4	2.58
	880	СВ	SER	_ A	+	78		-+-	35.715	-4	.386	1.00	1 4	3.83
10	881	OG	SER	A		778	1.44	-+	38.546	-5	.141	1.00) 5	8.37
,,	882	N	ARG	A		779	0.84		39.798	-4	.491	1.00) 5	6.74
	883	CA	ARG	A		779	1.90		39,668	-3	3.113	1.0	0 !	54.76
	884	С	ARG	_ A		779	1.80	-+	40.580	+-2	2.276	1.0	0 !	51.96
15	885	0	ARG	A		779	ļ		40.799	+	4.461	1.0	0	57.70
	886	СВ	ARG	_ ^		779	-0.4		41.124	+-	5.841	1.0	0	56.33
	887	CG	ARG	_ A	-+-	779	-1.6		42.120		5.735	1.0	00	58.79
20	888	CD	ARG		-+-	779	-1.6		42.088		6.907	1.0	00	62.79
	889	NE	ARG		-	779		 095	43.15		7.397	1.0	00	61.40
	890	CZ	ARG		4	779			44.33		6.824	1.	00	62.02
	891	NH1	ARG		<u> </u>	779		935	43.00		-8.426	1.	00	65.13
25	892	NH2	ARG		<u> </u>	779		912	38.55		-2.897	1.	00	46.79
	893	N	MET		<u> </u>	780		.600	38.33		-1.650	1	.00	42.92
	894	CA	MET		A	780		.323 .773	38.2		-2.049	1	.00	41.04
30	895	С	MET		A	780				-+	-1.311	1	.00	43.38
	896	0	MET		A	780	- - 	.595			-1.005	1	.00	45.45
	897	СВ	MET		Α	780		.953	+	-+	-0.596		.00	54.10
	898	CG	MET		Α	780	<u> </u>	.530	-		0.748		.00	62.75
35	899	SD	MET		Α	780		1.554	-		0.007	-	1.00	62.60
	900	CE	MET		Α	780		2.616		_+	-3.229	_	1.00	39.6
	90	1 N	TYF	3	_A	78		5.092			-3.744	-	1.00	33.0
40	90	2 CA	TYF	3	Α	78		6.429	-	-+	-2.753		1.00	33.2
	90	3 C	TYF	3	_A	78		7.53		166	-2.682		1.00	40.0
	90	4 0	TYI	R	A	78		8.49		428	-5.019		1.00	33.8
	90	05 CB	TY	R	A	78		6.58		995	-5.819	-+	1.00	46.6
45	90	06 CG	TY	R	A	78	+-	9.06		330	-5.400	+	1.00	53.
	90	07 CD1	TY	R	A	78		7.65		203	-6.95	2	1.00	48.
	90	08 CD2	TY	'R	A		81			.887	-6.07		1.00	50.
50	9	09 CE1	TY	′R	A			10.18		.756	-7.64		1.00	46.
	9	10 CE2	. T\	/R	A		81	8.7		1.105	-7.19		1.00	51
	9	11 CZ	T	/R	A			10.0		7.679	-7.82		1.00	55
	9	012 OH	T	ΥR	A		781	11.2		0.009	-1.98		1.00	39
55	9	913 N	S	ER	A	-+-	782	7.4		0.346	-1.00		1.00	46
	 	914 CA	S	ER	A		782	8.4	192 4		1		L	

TABLE 9 (continued)

	1	THREE-DIMENS	SIONAL COOL	RDINA	res of	AR IN COM	IPLEX WIT	H THE LIGA	ND R188	31
	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
5	915	С	SER	Α	782	8.597	39.361	0.159	1.00	38.58
	916	0	SER	Α	782	9.697	39.007	0.604	1.00	34.19
	917	СВ	SER	Α	782	8.364	41.780	-0.472	1.00	44.39
10	. 918	OG	SER	Α	782	7.042	42.049	-0.044	1.00	52.83
	919	N	GLN	Α	783	7.453	38.904	0.650	1.00	36.42
	920	CA	GLN	Α	783	7.486	37.948	1.736	1.00	43.09
	921	С	GLN	Α	783	8.040	36.661	1.160	1.00	41.26
15	922	0	GLN	Α	783	8.980	36.075	1.709	1.00	47.55
	923	СВ	GLN	Α	783	6.102	37.717	2.321	1.00	42.73
	924	CG	GLN	Α	783	5.538	38.915	3.059	1.00	48.39
20	925	CD	GLN	Α	783	5.113	40.045	2.137	1.00	50.96
	926	OE1	GLN	Α	783	4.504	39.831	1.083	1.00	53.94
	927	NE2	GLN	Α	783	5.430	41.260	2.538	1.00	52.89
25	928	N	CYS	Α	784	7.532	36.300	-0.015	1.00	36.76
25	929	CA	CYS	Α	784	7.945	35.084	-0.710	1.00	35.38
	930	С	CYS	Α	784	9.456	35.006	-0.859	1.00	33.10
	931	0	CYS	Α	784	10.073	33.978	-0.568	1.00	39.32
30	932	СВ	CYS	Α	784	7.244	34.989	-2.066	1.00	31.26
	933	SG	CYS	Α	784	5.513	34.425	-1.949	1.00	42.23
	934	N	VAL	Α	785	10.060	36.132	-1.199	1.00	33.87
35	935	CA	VAL	Α	785	11.491	36.173	-1.363	1.00	31.80
	936	C	VAL	Α	785	12.149	35.937	-0.019	1.00	33.12
	937	0	VAL	Α	785	13.164	35.267	0.051	1.00	35.91
	938	СВ	VAL	Α	785	11.928	37.502	-1.962	1.00	37.92
40	939	CG1	VAL	Α	785	13.417	37.484	-2.236	1.00	35.87
	940	CG2	VAL	Α	785	11.171	37.748	-3.264	1.00	33.21
	941	N	ARG	Α	786	11.556	36.461	1.052	1.00	36.61
45	942	CA	ARG	Α	786	12.091	36.278	2.406	1.00	38.66
_	943	С	ARG	Α	786	12.037	34.801	2.831	1.00	36.30
	944	0	ARG	Α	786	13.008	34.249	3.362	1.00	38.29
	945	СВ	ARG	Α	786	11.343	37.175	3.407	1.00	44.04
50	946	CG	ARG	Α	786	11.732	38.650	3.320	1.00	47.85
	947	CD	ARG	Α	786	12.880	38.968	4.255	1.00	50.22
	948	NE	ARG	Α	786	12.397	39.082	5.635	1.00	62.62
55	949	CZ	ARG	Α	786	13.172	39.167	6.719	1.00	58.03
	950	NH1	ARG	Α	786	14.494	39.134	6.609	1.00	61.23
	951	NH2	ARG	Α	786	12.621	39.385	7.908	1.00	54.77

TABLE 9 (continued)

		HREE-DIMENS	IONAL COOF	TAINIATE	ES OF AL	R IN COMP	LEX WITH	THE LIGAN	D R1881	
	 т		RESIDUE	#	X	Y	Z	occ	В	ATOM
5	ATOM	ATOM TYPE	MET		787	10.919	34.150	2.553	1.00	32.73
•	952	N OA	MET	A	787	10.763	32.746	2.883	1.00	34.16
	953	CA		A	787	11.733	31.878	2.066	1.00	38.91
	954	С	MET	A	787	12.229	30.846	2.539	1.00	43.10
10	955	0	MET	A	787	9.331	32.315	2.621	1.00	27.15
	956	СВ	MET	A	787	8.337	33.046	3.449	1.00	32.77
	957	CG	MET	A	787	6.714	32.334	3.317	1.00	46.02
15	958	SD	MET	-	787	6.063	33.236	2.001	1.00	31.94
15	959	CE	MET	A	788	11.999	32.296	0.835	1.00	39.06
	960	N	ARG	A	788	12.902	31.570	-0.035	1.00	34.24
	961	CA	ARG	A	 _	14.323	31.664	0.502	1.00	34.59
20	962	С	ARG	A	788	15.119	30.742	0.332	1.00	37.27
	963	0	ARG	A	788	12.790	32.122	-1.446	1.00	39.81
	964	СВ	ARG	A	788	13.263	31.196	-2.528	1.00	45.01
	965	CG	ARG	A	788	ļ	31.727	-3.887	1.00	54.21
25	966	CD	ARG	A	788	12.846	32.913	-4.290	1.00	63.42
	967	NE	ARG	<u>^</u>	788	13.605	33.620	-5.386	1.00	68.54
	968	CZ	ARG	A	788	13.340		-6.163	1.00	72.57
30	969	NH1	ARG	_ A	788	12.329	33.261	-5.752	1.00	72.25
	970	NH2	ARG	A	788	14.126	34.630	1.191	1.00	40.92
	971	N	HIS	A	789	14.636	+	1.784	1.00	53.01
	972	CA	HIS	A	789	15.973		2.782	1.00	54.43
35	973	С	HIS	A	789	16.107			1.00	50.35
	974	0	HIS	A	789	17.066		2.730	1.00	64.44
	975	СВ	HIS	A	789	16.114		2.575	1.00	74.91
40	976	CG	HIS	Α	789	16.334		1.739	1.00	80.32
	977	ND1	HIS	A	789	16.916		0.490		+
	978	CD2	HIS	_ A	789	16.051		1.982	1.00	
	979	CE1	HIS	А	789	16.982		-0.001	1.00	
45	980	NE2	HIS	Α	789		+	0.886	1.00	
	981	N	LEU	Α	790	15.112		3.674	1.00	+
	982	CA	LEU	Α	790	15.018		4.731	1.00	
50	983	С	LEU	Α	790	15.19		4.140	1.00	 -
	984	0	LEU	А	790	16.07	6 28.551	4.573	1.00	
	985	СВ	LEU	Α	790	13.66	0 30.757		1.00	
	986		LEU	A	790	13.45	5 29.853		1.00	
<i>55</i>	987		LEU	A	790	14.23	0 30.415		1.00	
	988		LEU	A	790	11.97	0 29.760	6.962	1.00) 46.2

	7	HREE-DIMENS	SIONAL COO	RDINA	res of A	AR IN COM	PLEX WIT	H THE LIGA	ND R188	31
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	989	N	SER	Α	791	14.388	28.963	3.130	1.00	38.77
	990	CA	SER	Α	791	14.516	27.661	2.501	1.00	35.86
	991	С	SER	Α	791	15.951	27.507	2.010	1.00	37.61
10	992	0	SER	Α	791	16.533	26.432	2.127	1.00	42.51
	993	СВ	SER	Α	791	13.515	27.479	1.363	1.00	39.07
	994	OG	SER	Α	791	13.974	28.090	0.177	1.00	55.38
4.5	995	N	GLN	Α	792	16.563	28.585	1.541	1.00	38.43
15	996	CA	GLN	Α	792	17.938	28.481	1.086	1.00	43.65
	997	С	GLN	A	792	18.978	28.304	2.201	1.00	46.43
	998	0	GLN	A	792	20.049	27.761	1.951	1.00	53.03
20	999	СВ	GLN	Α	792	18.297	29.652	0.201	1.00	43.96
	1000	CG	GLN	A	792	17.455	29.723	-1.021	1.00	50.40
	1001	CD	GLN	A	792	17.516	31.082	-1.648	1.00	56.80
25	1002	OE1	GLN	Α	792	17.275	32.081	-0.975	1.00	59.46
	1003	NE2	GLN	A	792	17.852	31.142	-2.938	1.00	56.24
	1004	N	GLU	Α	793	18.684	28.734	3.424	1.00	46.80
	1005	CA	GLU	Α	793	19.658	28.561	4.510	1.00	46.06
30	1006	С	GLU	Α	793	19.852	27.078	4.787	1.00	40.74
	1007	0	GLU	Α	793	20.972	26.632	5.000	1.00	41.28
	1008	СВ	GLU	Α	793	19.214	29.248	5.814	1.00	51.06
35	1009	CG	GLU	Α	793	18.949	30.772	5.734	1.00	67.15
	1010	CD	GLU	Α	793	20.212	31.644	5.762	1.00	74.35
	1011	OE1	GLU	Α	793	21.328	31.098	5.703	1.00	72.15
	1012	OE2	GLU	Α	793	20.083	32.894	5.837	1.00	83.11
40	1013	N	PHE	Α	794	18.771	26.302	4.760	1.00	38.60
	1014	CA	PHE	Α	794	18.862	24.866	5.031	1.00	36.65
	1015	С	PHE	Α	794	19.960	24.277	4.206	1.00	40.69
45	1016	0	PHE	Α	794	20.761	23.478	4.690	1.00	41.76
	1017	СВ	PHE	Α	794	17.562	24.160	4.686	1.00	32.29
	1018	CG	PHE	Α	794	16.462	24.410	5.669	1.00	37.63
	1019	CD1	PHE	Α	794	16.704	24.358	7.030	1.00	37.22
50	1020	CD2	PHE	Α	794	15.173	24.718	5.229	1.00	43.04
	1021	CE1	PHE	Α	794	15.665	24.605	7.945	1.00	35.06
	1022	CE2	PHE	A	794	14.126	24.969	6.140	1.00	37.46
55	1023	CZ	PHE	Α	794	14.376	24.913	7.494	1.00	27.46
ĺ	1024	N	GLY	Α	795	20.018	24.729	2.963	1.00	51.69
	1025	CA	GLY	Α	795	21.033	24.260	2.040	1.00	57.61

TABLE 9 (continued)

1	т	HREE-DIMENS	IONAL COOF			ontinued) R IN COM	PLEX WITH	H THE LIGAN	D R188	1
	ATOM	ATOM TYPE	RESIDUE	#	x	Υ	z	occ	В	ATOM
5	1026	C	GLY	Α	795	22.440	24.695	2.391	1.00	58.51
	1020	0	GLY	A	795	23.338	23.850	2.481	1.00	54.63
	1027	N	TRP	A	796	22.625	25.994	2.624	1.00	56.85
	1028	CA	TRP	Α	796	23.942	26.504	2.944	1.00	61.47
10	1029	C	TRP	A	796	24.433	25.986	4.301	1.00	59.21
	1030	0	TRP	A	796	25.614	25.649	4.469	1.00	55.17
	1031	СВ	TRP	A	796	23.966	28.039	2.770	1.00	77.04
15	1032	CG	TRP	A	796	24.441	28.924	3.938	1.00	99.05
	1034	CD1	TRP	A	796	23.779	30.018	4.436	1.00	103.16
	1035	CD2	TRP	A	796	25.693	28.847	4.686	1.00	107.94
00	1036	NE1	TRP	Α	796	24.528	30.622	5.430	1.00	107.43
20	1037	CE2	TRP	A	796	25.701	29.929	5.606	1.00	109.90
	1038	CE3	TRP	A	796	26.801	27.976	4.667	1.00	108.72
	1039	CZ2	TRP	Α	796	26.778	30.157	6.503	1.00	110.69
25	1040	CZ3	TRP	A	796	27.871	28.204	5.561	1.00	110.67
	1041	CH2	TRP	A	796	27.845	29.286	6.462	1.00	111.09
	1042	N	LEU	Α	797	23.500	25.779	5.221	1.00	56.75
30	1043	CA	LEU	Α	797	23.851	25.286	6.546	1.00	54.04
	1044	С	LEU	Α	797	24.012	23.767	6.640	1.00	56.56
	1045	0	LEU	Α	797	24.629	23.277	7.587	1.00	62.03
	1046	СВ	LEU	Α	797	22.839	25.782	7.583	1.00	52.49
35	1047	CG	LEU	Α	797	23.080	27.184	8.151	1.00	42.33
	1048	CD1	LEU	Α	797	21.835	27.737	8.827	1.00	39.02
	1049	CD2	LEU	Α	797	24.229	27.123	9.128	1.00	43.89
40	1050	N	GLN	Α	798	23.462	23.020	5.684	1.00	53.42
	1051	CA	GLN	Α	798	23.560	21.561	5.708	1.00	57.87
	1052	С	GLN	Α	798	22.788	20.960	6.890	1.00	54.98
	1053	0	GLN	Α	798	23.268	20.039	7.571	1.00	53.85
45	1054	СВ	GLN	A	798	25.028	21.103	5.774	1.00	67.87
	1055	CG	GLN	Α	798	25.773	21.088	4.438	1.00	83.30
	1056	CD	GLN	Α	798	27.115	20.345	4.507	1.00	91.19
50	1057	OE1	GLN	Α	798	27.910	20.564	5.428	1.00	96.98
	1058	NE2	GLN	Α	798	27.368	19.463	3.532	1.00	87.09
	1059	N	ILE	Α	799	21.597	21.494	7.131	1.00	49.17
55	1060	CA	ILE	Α	799	20.728	21.040	8.219	1.00	45.76
55	1061	С	ILE	Α	799	20.348	19.545	8.071	1.00	47.10
	1062	0	ILE	Α	799	19.766	19.135	7.059	1.00	40.12

TABLE 9 (continued)

	1	HREE-DIMENS	IONAL COOF	RDINA	TES OF	AR IN COM	PLEX WIT	H THE LIGA	ND R188	31
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	1063	СВ	ILE	Α	799	19.414	21.894	8.258	1.00	38.57
	1064	CG1	ILE	Α	799	19.733	23.388	8.383	1.00	36.16
	1065	CG2	ILE	Α	799	18.532	21.450	9.379	1.00	36.81
10	1066	CD1	ILE	Α	799	20.686	23.691	9.480	1.00	27.19
	1067	Ν	THR	Α	800	20.735	18.725	9.045	1.00	46.19
	1068	CA	THR	Α	800	20.386	17.310	9.026	1.00	47.55
4.5	1069	C	THR	Α	800	18.883	17.205	9.354	1.00	48.95
15	1070	0	THR	Α	800	18.345	18.013	10.125	1.00	55.00
	1071	СВ	THR	Α	800	21.222	16.474	10.060	1.00	47.29
	1072	OG1	THR	Α	800	20.773	16.729	11.396	1.00	53.15
20	1073	CG2	THR	Α	800	22.696	16.813	9.968	1.00	53.33
	1074	N	PRO	Α	801	18.170	16.238	8.740	1.00	47.30
	1075	CA	PRO	Α	801	16.733	16.068	9.000	1.00	42.31
25	1076	С	PRO	Α	801	16.353	15.955	10.476	1.00	38.64
23	1077	0	PRO	Α	801	15.193	16.130	10.835	1.00	40.23
	1078	СВ	PRO	Α	801	16.404	14.799	8.221	1.00	47.59
	1079	CG	PRO	Α	801	17.285	14.951	7.007	1.00	46.66
30	1080	CD	PRO	Α	801	18.603	15.381	7.615	1.00	45.27
	1081	N	GLN	Α	802	17.351	15.682	11.310	1.00	41.68
	1082	CA	GLN	Α	802	17.210	15.560	12.754	1.00	43.58
<i>35</i>	1083	. С	GLN	Α	802	17.275	16.959	13.403	1.00	48.44
	1084	0	GLN	Α	802	16.505	17.266	14.329	1.00	49.81
	1085	СВ	GLN	Α	802	18.338	14.684	13.311	1.00	46.98
	1086	CG	GLN	Α	802	18.321	13.250	12.830	1.00	46.45
40	1087	CD	GLN	Α	802	18.685	13.116	11.373	1.00	48.73
	1088	OE1	GLN	Α	802	19.827	13.413	10.968	1.00	53.22
	1089	NE2	GLN	Α	802	17.727	12.666	10.566	1.00	43.12
45	1090	N	GLU	Α	803	18.218	17.790	12.950	1.00	41.48
ļ	1091	CA	GLU	Α	803	18.322	19.142	13.483	1.00	32.56
	1092	С	GLU	Α	803	17.034	19.841	13.133	1.00	34.21
	1093	0	GLU	Α	803	16.456	20.543	13.951	1.00	39.30
50	1094	СВ	GLU	Α	803	19.485	19.869	12.879	1.00	27.56
	1095	CG	GLU	Α	803	20.796	19.325	13.342	1.00	33.55
	1096	CD	GLU	Α	803	21.903	19.778	12.436	1.00	40.34
55	1097	OE1	GLU	Α	803	21.618	20.023	11.249	1.00	39.58
	1098	OE2	GLU	Α	803	23.057	19.915	12.882	1.00	46.91
[1099	N	PHE	Α	804	16.541	19.584	11.932	1.00	32.10

	_ _	HREE-DIMENS	HONAL COOF			ontinued) R IN COMF	PLEX WITH	I THE LIGAN	D R1881	
	——— <u>—</u>	ATOM TYPE	RESIDUE	#	x	Υ	z	occ	В	ATOM
5	ATOM	CA	PHE	A	804	15.286	20.166	11.519	1.00	26.58
	1100	C	PHE	A	804	14.157	19.876	12.497	1.00	29.08
	1101	0	PHE	A	804	13.528	20.793	13.024	1.00	38.23
	1102	СВ	PHE	A	804	14.872	19.663	10.142	1.00	24.46
10	1103		PHE	A	804	13,445	20.032	9.767	1.00	35.13
	1104	CG	PHE	A	804	13.091	21.361	9.540	1.00	36.25
	1105	CD1	PHE	A	804	12.468	19.048	9.617	1.00	38.14
15	1106	CD2	PHE	A	804	11.795	21.712	9.164	1.00	27.83
	1107	CE1	PHE	A	804	11.163	19.385	9.238	1.00	39.32
	1108	CE2		A	804	10.826	20.723	9.011	1.00	38.61
	1109	CZ	PHE	A	805	13.887	18.600	12.728	1.00	30.73
20	1110	N	LEU	A	805	12.784	18.215	13.586	1.00	28.43
	1111 1	CA	LEU	╂	805	12.880	18.799	14.946	1.00	26.10
	1112	С	LEU	A .	805	11.881	19.243	15.493	1.00	34.14
25	1113	0	LEU	A	├ ──	12.648	16.702	13.661	1.00	34.10
	1114	СВ	LEU	A .	805	12.048	16.079	12.423	1.00	43.20
	1115	CG	LEU	A	805		14.617	12.600	1.00	36.94
	1116	CD1	LEU	A	805	12.046 10.549	16.523	12.252	1.00	44.97
30	1117	CD2	LEU	A .	805		18.836	15.493	1.00	27.20
	1118	N	CYS	A	806	14.082	19.396	16.831	1.00	39.83
	1119	CA	CYS	A	806	14.250	 	16.843	1.00	41.37
35	1120	С	CYS	A	806	13.904	20.894	17.704	1.00	38.83
	1121	0	CYS	A	806	13.145	21.367	17.341	1.00	43.31
	1122	СВ	CYS	A	806	15.669	19.143	17.526	0.50	37.47
	1123	SG	CYS	A	806	16.021	17.398	15.846	1.00	38.56
40	1124	N	MET	A	807	14.420	21.610		1.00	33.72
	1125	CA	MET	A	807	14.161	23.027	15.692	1.00	31.70
	1126	С	MET	A	807	12.662	23.301	15.488	1.00	37.83
45	1127	0	MET	_ A	807	12.093	24.168	16.148	 	37.50
40	1128	СВ	MET	A	807	14.973		14.519	1.00	38.94
	1129	CG	MET	A	807	16.474		14.740	1.00	42.84
	1130	SD	MET	A	807	17.486	+	13.596	1.00	
50	1131	CE	MET	A	807	17.165		12.065	1.00	49.58
	1132	N	LYS	A	808	12.006		14.617	1.00	27.59
	1133	CA	LYS	A	808	10.597		14.378	1.00	27.15
55	1134	С	LYS	A	808	9.841		15.686	1.00	29.83
55	1135	0	LYS	A	808	8.954		15.952	1.00	35.67
	1136	СВ	LYS	A	808	10.029	21.837	13.313	1.00	24.49

	1	HREE-DIMENS	IONAL COOF	RDINAT	TES OF A	AR IN COM	PLEX WIT	H THE LIGAN	ID R188	31
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	1137	CG	LYS	Α	808	8.598	22.158	12.811 1	1.00	23.62
	1138	CD	LYS	Α	808	8.148	21.143	11.740	1.00	24.64
	1139	CE	LYS	Α	808	7.157	20.101	12.280	1.00	29.39
10	1140	NZ	LYS	Α	808	5.683	20.529	12.198	1.00	36.92
	1141	N	ALA	Α	809	10.220	21.727	16.530	1.00	32.53
	1142	CA	ALA	Α	809	9.553	21.557	17.826	1.00	38.51
	1143	С	ALA	Α	809	9.786	22.766	18.749	1.00	43.27
15	1144	0	ALA	Α	809	8.844	23.305	19.346	1.00	43.55
	1145	СВ	ALA	Α	809	10.029	20.295	18.501	1.00	25.72
	1146	N	LEU	Α	810	11.042	23.193	18.836	1.00	41.18
20	1147	CA	LEU	Α	810	11.460	24.340	19.651	1.00	40.05
	1148	С	LEU	Α	810	10.732	25.626	19.269	1.00	38.85
	1149	0	LEU	Α	810	10.445	26.460	20.134	1.00	38.70
05	1150	СВ	LEU	Α	810	12.961	24.534	19.502	1.00	39.64
25	1151	. CG	LEU	Α	810	13.779	25.313	20.524	1.00	43.39
	1152	CD1	LEU	Α	810	13.361	24.959	21.942	1.00	41.58
	1153	CD2	LEU	Α	810	15.256	24.981	20.284	1.00	34.95
30	1154	N	LEU	Α	811	10.409	25.763	17.982	1.00	31.82
	1155	CA	LEU	Α	811	9.683	26.923	17.489	1.00	34.47
	1156	C	LEU	Α	811	8.359	27.093	18.200	1.00	35.94
<i>35</i>	1157	0	LEU	Α	811	7.918	28.219	18.435	1.00	47.05
33	1158	СВ	LEU	Α	811	9.384	26.811	15.988	1.00	33.79
	1159	CG	LEU	Α	811	10.309	27.474	14.973	1.00	28.95
	1160	CD1	LEU	Α	811	9.523	27.595	13.709	1.00	30.30
40	1161	CD2	LEU	Α	811	10.767	28.875	15.444	1.00	20.35
	1162	N	LEU	Α	812	7.713	25.978	18.527	1.00	31.68
	1163	CA	LEU	Α	812	6.418	26.032	19.190	1.00	30.90
45	1164	С	LEU	Α	812	6.459	26.850	20.469	1.00	29.57
	1165	0	LEU	Α	812	5.476	27.486	20.836	1.00	35.81
	1166	СВ	LEU	Α_	812	5.934	24.622	19.511	1.00	29.23
	1167	CG	LEU	Α	812	4.600	24.544	20.281	1.00	34.64
50	1168	CD1	LEU	Α	812	3.428	25.002	19.417	1.00	30.86
	1169	CD2	LEU	Α	812	4.355	23.144	20.738	1.00	31.58
	1170	N	PHE	Α	813	7.604	26.788	21.144	1.00	32.36
55	1171	CA	PHE	Α	813	7.862	27.480	22.405	1.00	36.84
	1172	С	PHE	Α	813	8.709	28.693	22.180	1.00	36.98
	1173	0	PHE	Α	813	9.584	28.983	22.996	1.00	34.78

TABLE 9 (continued)

	-	THREE-DIMENS	SIONAL COO	RDINA	TES OF	AR IN COM	IPLEX WIT	H THE LIGA	ND R188	31
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	1174	СВ	PHE	Α	813	8.669	26.585	23.335	1.00	39.81
	1175	CG	PHE	Α	813	8.119	25.242	23.454	1.00	42.06
	1176	CD1	PHE	Α	813	6.837	25.057	23.960	1.00	40.53
10	1177	CD2	PHE	Α	813	8.826	24.156	22.984	1.00	43.44
	1178	CE1	PHE	Α	813	6.255	23.794	23.990	1.00	49.40
	1179	CE2	PHE	Α	813	8.259	22.884	23.006	1.00	48.76
<u>.</u> _	1180	CZ	PHE	Α	813	6.966	22.698	23.510	1.00	49.26
15	1181	N	SER	Α	814	8.488	29.380	21.071	1.00	39.85
	1182	CA	SER	Α	814	9.284	30.547	20.748	1.00	40.33
	1183	С	SER	Α	814	8.531	31.858	20.778	1.00	34.59
20	1184	0	SER	Α	814	9.125	32.897	20.612	1.00	39.81
	1185	СВ	SER	A	814	9.938	30.364	19.374	1.00	45.33
	1186	OG	SER	Α	814	11.096	29.544	19.469	1.00	51.73
0E	1187	N	ILE	Α	815	7.242	31.838	21.040	1.00	38.17
25	1188	CA	ILE	A	815	6.508	33.083	21.033	1.00	46.03
	1189	С	ILE	Α	815	5.456	33.076	22.149	1.00	46.20
	1190	0	ILE	Α	815	4.526	32.260	22.112	1.00	45.64
30	1191	СВ	ILE	Α	815	5.937	33.329	19.597	1.00	49.44
	1192	CG1	ILE	Α	815	4.943	34.477	19.593	1.00	50.62
	1193	CG2	ILE	Α	815	5.401	32.041	18.971	1.00	50.44
35	1194	CD1	ILE	Α	815	5.406	35.592	18.748	1.00	55.65
	1195	N	ILE	Α	816	5.645	33.950	23.152	1.00	47.67
	1196	CA	ILE	Α	816	4.762	34.056	24.344	1.00	46.12
	1197	С	ILE	Α	816	4.302	35.482	24.731	1.00	42.20
40	1198	0	ILE	Α	816	5.002	36.460	24.436	1.00	43.23
	1199	СВ	ILE	Α	816	5.446	33.417	25.609	1.00	50.07
	1200	CG1	ILE	Α	816	6.701	34.194	26.018	1.00	49.09
45	1201	CG2	ILE	Α	816	5.819	31.970	25.326	1.00	52.85
	1202	CD1	ILE	Α	816	7.442	33.578	27.204	1.00	37.43
	1203	N	PRO	Α	817	3.123	35.618	25.402	1.00	37.07
	1204	CA	PRO	Α	817	2.619	36.933	25.811	1.00	40.94
50	1205	С	PRO	Α	817	3.702	37.599	26.659	1.00	49.75
	1206	0	PRO	Α	817	4.595	36.891	27.163	1.00	47.60
	1207	СВ	PRO	Α	817	1.396	36.581	26.662	1.00	27.66
55	1208	CG	PRO	Α	817	0.902	35.368	26.063	1.00	28.99
	1209	CD	PRO	Α	817	2.186	34.579	25.855	1.00	33.43
į	1210	N	VAL	Α	818	3.663	38.933	26.798	1.00	57.41

	Г 7	THREE-DIMENS	SIONAL COOF			AR IN COM	IPLEX WIT	H THE LIGA	ND R188	31
	ATOM	ATOM TYPE	RESIDUE	#	х	Υ	Z	occ	В	ATOM
5	1211	CA	VAL	Α	818	4.690	39.631	27.592	1.00	58.97
	1212	С	VAL	Α	818	4.728	39.410	29.124	1.00	59.31
	1213	0	VAL	Α	818	5.801	39.574	29.720	1.00	63.79
10	1214	СВ	VAL	Α	818	4.893	41.127	27.206	1.00	54.46
	1215	CG1	VAL	Α	818	5.738	41.211	25.950	1.00	49.94
	1216	CG2	VAL	Α	818	3.575	41.824	27.009	1.00	53.66
	1217	N	ASP	Α	819	3.607	39.061	29.769	1.00	56.35
15	1218	CA	ASP	Α	819	3.654	38.741	31.212	1.00	61.78
	1219	С	ASP	Α	819	4.167	37.302	31.212	1.00	63.93
	1220	0	ASP	Α	819	5.322	36.998	31.566	1.00	69.29
20	1221	СВ	ASP	Α	819	2.270	38.746	31.869	1.00	60.71
	1222	CG	ASP	Α	819	1.174	39.031	30.888	1.00	71.79
	1223	OD1	ASP	Α	819	0.947	40.218	30.600	1.00	78.23
25	1224	OD2	ASP	Α	819	0.577	38.069	30.373	1.00	78.87
25	1225	N	GLY	Α	820	3.296	36.419	30.758	1.00	57.92
	1226	CA	GLY	Α	820	3.652	35.034	30.672	1.00	46.58
	1227	С	GLY	Α	820	2.369	34.304	30.440	1.00	45.74
30	1228	0	GLY	Α	820	1.293	34.894	30.200	1.00	40.14
	1229	N	LEU	Α	821	2.497	32.995	30.500	1.00	46.98
	1230	CA	LEU	Α	821	1.378	32.105	30.327	1.00	47.93
35	1231	С	LEU	Α	821	0.787	31.902	31.733	1.00	47.05
	1232	0	LEU	Α	821	1.456	32.188	32.737	1.00	45.88
	1233	СВ	LEU	Α	821	1.905	30.808	29.708	1.00	54.39
	1234	CG	LEU	Α	821	2.560	31.017	28.336	1.00	50.67
40	1235	CD1	LEU	Α	821	3.858	30.259	28.235	1.00	43.32
	1236	CD2	LEU	Α	821	1.602	30.622	27.240	1.00	46.90
	1237	N	LYS	Α	822	-0.437	31.393	31.820	1.00	48.17
45	1238	CA	LYS	Α	822	-1.103	31.181	33.105	1.00	52.88
	1239	С	LYS	Α	822	-0.449	30.065	33.935	1.00	59.84
	1240	0	LYS	Α	822	-1.111	29.361	34.709	1.00	62.81
	1241	СВ	LYS	Α	822	-2.609	30.951	32.880	1.00	56.87
50	1242	CG	LYS	Α	822	-3.321	32.193	32.288	1.00	65.23
	1243	CD	LYS	Α	822	-4.729	31.923	31.719	1.00	63.38
	1244	CE	LYS	Α	822	-5.371	33.194	31.088	1.00	65.28
55	1245	NZ	LYS	Α	822	-4.534	33.875	30.032	1.00	59.84
	1246	N	ASN	Α	823	0.862	29.930	33.744	1.00	62.47
	1247	CA	ASN	Α	823	1.739	28.988	34.419	1.00	60.37

				170		ontinued)	N EX MITH	THELIGAN	D R1881	
1	T	HREE-DIMENS	IONAL COOF	RDINATI	ES OF A		LEX WITH	OCC.	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	OCC		58.03
5	1248	С	ASN	Α	823	3.025	28.904	33.616	1.00	50.60
	1249	0	ASN	Α	823	3.364	27.879	33.017	1.00	65.57
	1250	СВ	ASN	Α	823	1.138	27.611	34.544	1.00	75.73
10	1251	CG	ASN	Α	823	2.094	26.649	35.178	1.00	68.88
	1252	OD1	ASN	Α	823	3.101	27.051	35.811	1.00	81.03
	1253	ND2	ASN	Α	823	1.830	25.367	34.986	1.00	
	1254	N	GLN	Α	824	3.743	30.012	33.631	1.00	59.10
15	1255	CA	GLN	Α	824	4.993	30.158	32.914	1.00	
	1256	С	GLN	Α	824	6.069	29.145	33.329	1.00	54.52
	1257	0	GLN	Α	824	6.826	28.677	32.483	1.00	53.91
20	1258	СВ	GLN	Α	824	5.485	31.592	33.129	1.00	56.68
	1259	CG	GLN	Α	824	6.761	31.972	32.412	1.00	54.92
	1260	CD	GLN	Α	824	6.532	32.329	30.976	1.00	59.81
	1261	OE1	GLN	Α	824	5.462	32.833	30.602	1.00	57.91
25	1262	NE2	GLN	Α	824	7.533	32.078	30.150	1.00	62.36
	1263	N	LYS	Α	825	6.099	28.777	34.613	1.00	55.18
	1264	CA	LYS	Α	825	7.098	27.841	35.160	1.00	53.31
30	1265	С	LYS	Α	825	7.351	26.550	34.357	1.00	46.62
	1266	0	LYS	Α	825	8.497	26.236	34.015	1.00	40.85
	1267	СВ	LYS	Α	825	6.769	27.515	36.626	1.00	57.76
	1268	CG	LYS	Α	825	7.128	28.634	37.617	1.00	64.19
35	1269	CD	LYS	Α	825	6.432	28.463	38.979	1.00	77.45
	1270	CE	LYS	Α	825	7.122	29.254	40.125	1.00	86.97
	1271	NZ	LYS	Α	825	7.186	30.763	40.023	1.00	89.42
40	1272	N	PHE	Α	826	6.285	25.811	34.053	1.00	46.35
	1273	CA	PHE	Α	826	6.399	24.562	33.288	1.00	47.42
	1274	С	PHE	A	826	6.892	24.863	31.853	1.00	48.67
	1275	0	PHE	Α	826	7.847	24.243	31.395	1.00	48.05
45	1276	СВ	PHE	Α	826	5.063	23.774	33.273	1.00	43.87
	1277	CG	PHE	A	826	4.588	23.295	34.653	1.00	56.48
	1278	CD1	PHE	Α	826	5.443	23.288		1.00	62.15
50	1279		PHE	А	826	3.273	3 22.832		1.00	60.89
	1280		PHE	Α	826	4.994	22.827		1.00	53.25
	1281		PHE	А	826	2.813	3 22.367		1.00	53.93
	1282		PHE	A	826	3.68	1 22.368	37.193	1.00	51.47
55	1283		PHE	A	827	6.27	2 25.835	31.168	1.00	44.70
	1284		PHE	A	827	6.67	0 26.234	29.800	1.00	40.53

TABLE 9 (continued)

1	THREE-DIMENS	SIONAL COO			AR IN COM	IPLEX WIT	THE LIGA	ND R188	31
ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATC
1285	С	PHE	Α	827	8.181	26.414	29.746	1.00	37
1286	0	PHE	Α	827	8.848	25.934	28.835	1.00	35
1287	СВ	PHE	Α	827	5.964	27.558	29.375	1.00	35
1288	CG	PHE	Α	827	6.497	28.177	28.070	1.00	31
1289	CD1	PHE	Α	827	7.750	28.793	28.018	1.00	32
1290	CD2	PHE	Α	827	5.742	28.125	26.900	1.00	34
1291	CE1	PHE	Α	827	8.239	29.331	26.834	1.00	34
1292	CE2	PHE	Α	827	6.225	28.664	25.705	1.00	26
1293	CZ	PHE	Α	827	7.472	29.265	25.676	1.00	30
1294	N	ASP	Α	828	8.705	27.105	30.745	1.00	42
1295	CA	ASP	Α	828	10.120	27.388	30.829	1.00	49
1296	С	ASP	Α	828	10.933	26.130	31.071	1.00	49
1297	0	ASP	Α	828	12.107	26.056	30.681	1.00	48
1298	СВ	ASP	Α	828	10.371	28.459	31.899	1.00	53
1299	CG	ASP	Α	828	9.730	29.810	31.539	1.00	65
1300	OD1	ASP	Α	828	9.610	30.121	30.329	1.00	69
1301	OD2	ASP	Α	828	9.357	30.576	32.461	1.00	63
1302	N	GLU	Α	829	10.313	25.138	31.703	1.00	49
1303	CA	GLU	Α	829	10.997	23.875	31.941	1.00	49
1304	С	GLU	Α	829	10.952	23.103	30.622	1.00	37
1305	0	GLU	Α	829	11.969	22.573	30.177	1.00	35
1306	СВ	GLU	Α	829	10.350	23.073	33.076	1.00	61
1307	CG	GLU	Α	829	11.366	22.268	33.925	1.00	81
1308	CD	GLU	Α	829	10.939	20.814	34.222	1.00	92
1309	OE1	GLU	Α	829	9.952	20.603	34.969	1.00	97
1310	OE2	GLU	Α	829	11.619	19.881	33.727	1.00	91
1311	N	LEU	Α	830	9.794	23.102	29.962	1.00	33
1312	CA	LEU	Α	830	9.626	22.436	28.661	1.00	37
1313	С	LEU	Α	830	10.621	23.003	27.673	1.00	41
1314	0	LEU	Α	830	11.366	22.261	27.031	1.00	46
1315	СВ	LEU	Α	830	8.240	22.701	28.083	1.00	30
1316	CG	LEU	Α	830	7.257	21.551	28.118	1.00	39
1317	CD1	LEU	Α	830	6.108	21.877	27.212	1.00	34
1318	CD2	LEU	Α	830	7.951	20.268	27.671	1.00	49
1319	N	ARG	Α	831	10.621	24.333	27.566	1.00	44.
1320	CA	ARG	Α	831	11.504	25.048	26.658	1.00	40
1321	С	ARG	Α	831	12.977	24.673	26.862	1.00	37.

		HREE-DIMENS	101111 000			ontinued)	PI FX WITH	THE LIGAN	D R1881	
						Y	Z	occ	В	ATOM
5	ATOM	ATOM TYPE	RESIDUE	#	X	13.690	24.354	25.901	1.00	37.75
5	1322	0	ARG	A	831	11.285	26.566	26.765	1.00	34.87
	1323	СВ	ARG	A	831		27.322	25.816	1.00	34.44
	1324	CG	ARG	A	831	12.179	28.804	25.731	1.00	38.71
10	1325	CD	ARG	A	831	11.915	29.423	25.006	1.00	39.34
	1326	NE	ARG	A	831	13.020	29.573	23.682	1.00	44.99
	1327	CZ	ARG	A	831	13.073	29.164	22.926	1.00	40.07
15	1328	NH1	ARG	A_	831	12.060		23.104	1.00	41.88
15	1329	NH2	ARG	A	831	14.178	30.050		1.00	38.65
	1330	N	MET	Α_	832	13.411	24.625	28.116	1.00	43.09
	1331	CA	MET	A	832	14.799	24.281	28.440	1.00	44.84
20	1332	С	MET	A	832	15.239	22.880	27.996	 	43.33
	1333	0	MET	A	832	16.400	22.662	27.602	1.00	
	1334	СВ	MET	A	832	15.065	24.409	29.941	1.00	41.77 50.47
	1335	CG	MET	A	832	16.486	23.967	30.274	1.00	
25	1336	SD	MET	Α	832	16.856	23.608	31.997	1.00	61.59
	1337	CE	MET	Α	832	15.233	23.187	32.715	1.00	51.34
	1338	N	ASN	A	833	14.339	21.914	28.141	1.00	46.14
30	1339	CA	ASN	A	833	14.661	20.552	27.754	1.00	44.12
	1340	С	ASN	Α	833	14.756	20.387	26.255	1.00	40.57
	1341	0	ASN	A	833	15.670	19.729	25.766	1.00	45.06
	1342	СВ	ASN	Α	833	13.689	19.580	28.379	1.00	47.22
35	1343	CG	ASN	A	833	14.098	19.202	29.782	1.00	44.35
	1344	OD1	ASN	A	833	15.262	18.849	30.041	1.00	53.06
	1345	ND2	ASN	Α	833	13.161	19.299	30.705	1.00	42.24
40	1346	N	TYR	Α	834	13.866	21.048	25.523	1.00	35.70
	1347	CA	TYR	À	834	13.923	21.006	24.074	1.00	36.60
	1348	С	TYR	Α	834	15.260	21.582	23.589	1.00	35.58
	1349	0	TYR	Α	834	15.891	21.044	22.670	1.00	39.23
45	1350	СВ	TYR	A	834	12.723	21.729	23.473	1.00	33.03
	1351	CG	TYR	Α	834	11.480	20.849	23.446	1.00	39.21
	1352	CD1	TYR	А	834	10.724	20.630	24.597	1.00	41.70
50	1353	CD2	TYR	Α	834	11.085	20.196	22.274	1.00	38.14
	1354	CE1	TYR	А	834	9.598	19.774	24.587	1.00	44.38
	1355	CE2	TYR	Α	834	9.959	19.337	22.255	1.00	42.60
	1356	CZ	TYR	A	834	9.229	19.132	23.416	1.00	42.12
55	1357		TYR	A	834	8.164	18.264	23.404	1.00	38.82
	1358		ILE	A	835	15.754	22.607	24.275	1.00	37.68

TABLE 9 (continued)

	THREE-DIMENS	SIONAL COO	RDINA	TES OF	AR IN COM	1	H THE LIGA	ND R188	31
ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	A
1359	CA	ILE	Α	835	17.042	23.197	23.901	1.00	4
1360	С	ILE	Α	835	18.103	22.133	24.060	1.00	4
1361	0	ILE	Α	835	18.995	21.997	23.217	1.00	4
1362	СВ	ILE	Α	835	17.408	24.417	24.782	1.00	3
1363	CG1	ILE	Α	835	16.357	25.512	24.558	1.00	4
1364	CG2	ILE	Α	835	18.832	24.912	24.457	1.00	2
1365	CD1	ILE	Α	835	16.610	26.802	25.286	1.00	3
1366	N	LYS	Α	836	17.980	21.373	25.144	1.00	4
1367	CA	LYS	Α	836	18.925	20.313	25.442	1.00	4
1368	С	LYS	Α	836	18.846	19.252	24.363	1.00	4
1369	0	LYS	Α	836	19.866	18.780	23.914	1.00	4
1370	СВ	LYS	Α	836	18.655	19.694	26.813	1.00	4
1371	CG	LYS	Α	836	19.116	20.512	28.011	1.00	4
1372	CD	LYS	Α	836	18.609	19.834	29.274	0.00	5
1373	CE	LYS	Α	836	19.311	20.321	30.524	0.00	5
1374	NZ	LYS	Α	836	18.709	19.697	31.735	0.00	5
1375	N	GLU	Α	837	17.655	18.928	23.883	1.00	4
1376	CA	GLU	Α	837	17.543	17.899	22.851	1.00	4
1377	С	GLU	Α	837	18.253	18.344	21.603	1.00	4
1378	0	GLU	Α	837	18.902	17.549	20.922	1.00	4
1379	СВ	GLU	Α	837	16.077	17.573	22.516	1.00	4
1380	CG	GLU	A	837	15.226	17.032	23.675	1.00	4
1381	CD	GLU	Α	837	15.937	15.978	24.534	1.00	5
1382	OE1	GLU	Α	837	16.915	15.332	24.076	1.00	4
1383	OE2	GLU	Α	837	15.512	15.804	25.696	1.00	5
1384	N	LEU	Α	838	18.113	19.627	21.305	1.00	4
1385	CA	LEU	Α	838	18.739	20.218	20.139	1.00	4
1386	С	LEU	Α	838	20.244	20.120	20.285	1.00	4
1387	0	LEU	Α	838	20.949	19.835	19.332	1.00	4
1388	СВ	LEU	Α	838	18.324	21.675	20.019	1.00	4
1389	CG	LEU	Α	838	19.051	22.463	18.932	1.00	4
1390	CD1	LEU	Α	838	18.810	21.814	17.567	1.00	3
1391	CD2	LEU	Α	838	18.571	23.909	18.964	1.00	3
1392	N	ASP	Α	839	20.713	20.346	21.501	1.00	4
1393	CA	ASP	Α	839	22.129	20.286	21.844	1.00	5
1394	С	ASP	Α	839	22.630	18.829	21.696	1.00	5
1395	0	ASP	Α	839	23.750	18.569	21.224	1.00	5.

		HREE-DIMENS		TAE	SLE 9 (C	ontinued)	I FX WITH	THE LIGAN	D R1881	
	T				X	Y	z	occ	В	ATOM
_	ATOM	ATOM TYPE	RESIDUE	#		22.262	20.760	23.305	1.00	59.66
5	1396	СВ	ASP	A	839	23.673	21.234	23.674	1.00	66.70
	1397	CG	ASP	A	839		21.284	22.812	1.00	65.99
	1398	OD1	ASP	A	839	24.584		24.860	1.00	68.25
10	1399	OD2	ASP	A	839	23.850	21.598	22.081	1.00	62.29
	1400	N	ARG	A	840	21.768	17.884	22.022	1.00	62.05
	1401	CA	ARG	Α	840	22.065	16.453		1.00	60.23
	1402	С	ARG	A	840	22.280	16.022	20.591	1.00	57.37
15	1403	0	ARG	Α	840	23.331	15.468	20.268		61.97
	1404	СВ	ARG	Α	840	20.927	15.623	22.643	1.00	62.90
	1405	CG	ARG	Α	840	21.035	14.114	22.407	1.00	
20	1406	CD	ARG	A	840	20.219	13.320	23.422	1.00	62.88
	1407	NE	ARG	Α	840	20.676	13.542	24.799	1.00	67.96
	1408	CZ	ARG	Α	840	19.875	13.676	25.861	1.00	65.20
	1409	NH1	ARG	Α	840	18.550	13.618	25.718	1.00	60.29
25	1410	NH2	ARG	Α	840	20.404	13.889	27.066	1.00	61.82
	1411	N	ILE	Α	841	21.298	16.311	19.739	1.00	57.25
	1412	CA	ILE	Α	841	21.344	15.956	18.325	1.00	64.29
30	1413	С	ILE	Α	841	22.494	16.602	17.508	1.00	71.86
	1414	0	ILE	A	841	22.706	16.276	16.327	1.00	78.18
	1415	СВ	ILE	A	841	19.998	16.261	17.674	1.00	66.05
	1416	CG1	ILE	A	841	19.813	17.765	17.505	1.00	60.52
35	1417	CG2	ILE	A	841	18.887	15.730	18.567	1.00	69.45
	1418	CD1	ILE	Α	841	18.835	18.115	16.439	1.00	55.24
	1419	N	ILE	A	842	23.210	17.541	18.127	1.00	74.71
40	1420	CA	ILE	A	842	24.354	18.208	17.489	1.00	72.84
40	1421	С	ILE	A	842	25.643	17.430	17.845	1.00	76.76
	1422	0	ILE	A	842	26.431	17.080	16.952	1.00	76.88
	1423		ILE	A	842	24.507	19.684	17.990	1.00	62.10
45			ILE	A	842	23.312	20.522	17.569	1.00	54.67
	1424		ILE	A	842	25.769	20.303	17.439	1.00	59.08
	1425		ILE	A	842		20.519	16.109	1.00	56.78
50	1426	_ 	ALA	A	843		17.166	19.152	1.00	82.38
50	1427		ALA	A	843			19.733	1.00	81.09
	1428	+	ALA	A	843			19.524	1.00	79.83
	1429	 	ALA	A	843			19.838	1.00	79.34
55	1430			$\frac{1}{A}$					1.00	73.81
	1431		ALA		-			 	1.00	80.33
	1432	. N	CYS	_ A	044	25.072				

TABLE 9 (continued)

	7	THREE-DIMENS	SIONAL COOF			AR IN COM	PLEX WIT	H THE LIGA	ND R188	31
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	1433	CA	CYS	Α	844	25.657	13.052	18.721	1.00	80.34
	1434	С	CYS	Α	844	25.771	12.645	17.215	1.00	84.98
	1435	0	CYS	Α	844	25.056	11.750	16.759	1.00	90.65
10	1436	СВ	CYS	Α	844	24.269	12.717	19.315	1.00	80.98
	1437	SG	CYS	Α	844	24.002	11.110	20.120	1.00	93.38
	1438	N	LYS	Α	845	26.665	13.302	16.460	1.00	86.19
	1439	CA	LYS	Α	845	26.917	13.002	15.026	1.00	83.63
15	1440	С	LYS	Α	845	28.420	13.101	14.620	1.00	90.32
	1441	0 .	LYS	Α	845	29.110	12.079	14.517	1.00	87.60
	1442	СВ	LYS	Α	845	26.063	13.874	14.087	1.00	72.76
20	1443	CG	LYS	Α	845	24.727	13.263	13.735	1.00	66.51
	1444	CD	LYS	Α	845	23.998	14.104	12.702	0.00	63.58
	1445	CE	LYS	Α	845	24.644	14.005	11.326	0.00	60.54
05	1446	NZ	LYS	Α	845	23.795	13.251	10.351	0.00	57.84
25	1447	N	ARG	Α	846	28.929	14.316	14.384	1.00	97.68
	1448	CA	ARG	Α	846	30.336	14.489	13.998	1.00	99.68
	1449	С	ARG	Α	846	31.289	15.076	15.097	1.00	104.16
30	1450	0	ARG	Α	846	31.315	14.556	16.229	1.00	101.78
	1451	СВ	ARG	Α	846	30.442	15.246	12.671	1.00	94.46
	1452	CG	ARG	Α	846	31.702	14.917	11.839	1.00	92.16
35	1453	CD	ARG	Α	846	31.538	13.643	10.999	1.00	87.99
00	1454	NE	ARG	Α	846	32.671	12.718	11.128	1.00	86.09
	1455	CZ	ARG	Α	846	32.667	11.463	10.675	1.00	85.82
	1456	NH1	ARG	Α	846	31.583	10.985	10.058	1.00	79.74
40	1457	NH2	ARG	Α	846	33.720	10.666	10.891	1.00	82.90
	1458	N	LYS	Α	847	32.040	16.139	14.736	1.00	109.20
	1459	CA	LYS	Α	847	33.061	16.820	15.585	1.00	108.66
45	1460	С	LYS	Α	847	32.769	17.424	16.961	1.00	113.81
	1461	0	LYS	Α	847	31.596	17.569	17.368	1.00	118.99
	1462	СВ	LYS	Α	847	33.760	17.897	14.758	0.00	98.30
	1463	CG	LYS	Α	847	34.514	17.383	13.563	0.00	85.34
50	1464	CD	LYS	Α	847	35.150	18.542	12.840	0.00	73.33
	1465	CE	LYS	Α	847	35.928	18.073	11.641	0.00	64.16
	1466	NZ	LYS	Α	847	36.604	19.219	10.996	0.00	56.55
55	1467	N	ASN	Α	848	33.860	17.821	17.636	1.00	115.89
	1468	CA	ASN	Α	848	33.904	18.449	18.991	1.00	116.39
	1469	С	ASN	Α	848	35.379	18.906	19.266	1.00	119.41

	_			TA	BLE	9 (00	ntinued)	I FX WIT	H THE LIG	AND F	31881	
	TI	HREE-DIMENS					Y	Z	occ	1	3	ATOM
	ATOM	ATOM TYPE	RESIDUE	#		X	36.305	18.286	18.735	1.	00	122.42
5	1470	0	ASN		+-	348	33.392	17.448	20.089	1.	00	106.55
	1471	СВ	ASN	A	+-	348	33.984	16.032	19.955	1.	.00	99.70
	1472	CG	ASN	A	+-	848	35.078	15.825	19.426	1	.00	96.25
10	1473	OD1	ASN	A		848	33.240	15.046	20.457	1	.00	89.90
	1474	ND2	ASN	A .	-	848	35.622	20.019	20.031	1	.00	119.93
	1475	N	PRO	A		849	34.808	21.031	20.742	1	.00	119.46
	1476	CA	PRO	A	+	849	34.292	22.298	20.008	1	.00	118.74
15	1477	С	PRO	A		849	33.082	22.562	20.005		.00	121.98
	1478	0	PRO	A	+	849	35.725	21.422			1.00	118.16
	1479	СВ	PRO	A	-	849	37.063	21.454	1		1.00	118.96
20	1480	CG	PRO	A	-+-	849	37.039	20.160		-+	1.00	120.61
	1481	CD	PRO	A		849	35.178	23.098		, +	1.00	113.94
	1482	N	THR	A		850	34,738	24.33			1.00	107.06
	1483	CA	THR	A	-+	850	33.693	24.10			1.00	103.74
25	1484	С	THR	A	-+	850	32.820	24.94			1.00	104.75
	1485	0	THR		-+	850	35.931	25.18			1.00	105.27
	1486	СВ	THR		4	850				-+	1.00	104.75
30	1487	OG1	THR		<u> </u>	850	36.538				1.00	99.79
	1488	CG2	THR		<u> </u>	850	36.976				1.00	98.29
	1489	N	SER		<u> </u>	851	+				1.00	93.63
	1490	CA	SER		A	851	32.885				1.00	89.97
35	1491	С	SER		<u> </u>	851	31.374				1.00	85.73
	1492	. 0	SER		Α	851	30.553	+			1.00	93.65
	1493	CB	SER		Α	851	33.319				1.00	96.10
40	1494	OG	SER		Α	851	32,72	-			1.00	87.30
	149	5 N	CYS	_	<u> </u>	852	31.00		- .==		1.00	85.6
	1490	6 CA	CYS		Α	852			10.5		1.00	85.7
4.5	149	7 C	CYS		<u> </u>	852					1.00	
45	149	8 O	CYS		_ <u>A</u>	852					1.00	85.6
	149	9 CB	CYS		<u> </u>	852		-			1.0	92.3
	150	0 SG	CYS		Α	852			873 19.1		1.0	0 88.6
50	150	11 N	SER		<u>A</u>	853		_	085 19.9		1.0	0 85.4
	150)2 CA	SER	-+	<u> </u>	853			147 18.9		1.0	0 81.8
	150	03 C	SER		A	853				260	1.0	
	150	04 0	SEF		Α	853				702	1.0	0 83.
55	150	05 CB	SEF	}	<u>A</u>	85				692	1.0	00 75.
	15	06 OG	SEF	1	A	85	3 31.5	24 24	., 55 2			

TABLE 9 (continued)

	٦	HREE-DIMENS	SIONAL COOF	RDINA	res of A	AR IN COM	PLEX WIT	H THE LIGA	ND R188	31
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	1507	N	ARG	Α	854	29.929	26.190	17.806	1.00	77.44
	1508	CA	ARG	Α	854	29.586	27.108	16.721	1.00	75.23
	1509	С	ARG	Α	854	28.428	26.555	15.903	1.00	68.44
10	1510	0	ARG	Α	854	27.614	27.325	15.381	1.00	64.21
	1511	СВ	ARG	Α	854	30.803	27.423	15.831	1.00	83.31
	1512	CG	ARG	Α	854	31.492	26.211	15.215	1.00	95.75
	1513	CD	ARG	Α	854	32.915	26.540	14.706	1.00	105.49
15	1514	NE	ARG	Α	854	32.927	27.070	13.344	1.00	111.61
	1515	CZ	ARG	A	854	33.255	28.318	13.014	1.00	107.74
	1516	NH1	ARG	Α	854	33.614	29.182	13.963	1.00	108.73
20	1517	NH2	ARG	A	854	33.171	28.704	11.740	1.00	100.08
	1518	N	ARG	Α	855	28.341	25.228	15.801	1.00	62.47
	1519	CA	ARG	Α	855	27.229	24.606	15.087	1.00	56.87
25	1520	С	ARG	Α	855	25.922	24.945	15.831	1.00	55.34
23	1521	0	ARG	Α	855	24.861	25.054	15.206	1.00	61.05
	1522	СВ	ARG	Α	855	27.423	23.085	14.974	1.00	53.03
	1523	CG	ARG	Α	855	26.247	22.321	14.341	1.00	51.39
30	1524	CD	ARG	Α	855	25.983	22.707	12.891	1.00	55.10
	1525	NE	ARG	Α	855	24.943	21.899	12.233	1.00	54.36
	1526	CZ	ARG	Α	855	24.745	21.858	10.911	1.00	55.00
35	1527	NH1	ARG	Α	855	25.517	22.579	10.110	1.00	52.83
	1528	NH2	ARG	Α	855	23.796	21.094	10.384	1.00	48.85
	1529	N	PHE	Α	856	26.003	25.152	17.152	1.00	52.54
	1530	CA	PHE	Α	856	24.817	25.508	17.962	1.00	49.53
40	1531	С	PHE	Α	856	24.438	26.974	17.738	1.00	48.70
	1532	0	PHE	Α	856	23.254	27.326	17.597	1.00	45.42
	1533	СВ	PHE	Α	856	25.066	25.270	19.457	1.00	46.16
45	1534	CG	PHE	Α	856	23.852	25.527	20.319	1.00	46.93
	1535	CD1	PHE	Α	856	22.699	24.751	20.170	1.00	47.04
	1536	CD2	PHE	Α	856	23.845	26.549	21.259	1.00	41.32
	1537	CE1	PHE	Α	856	21.547	24.986	20.949	1.00	46.91
50	1538	CE2	PHE	Α	856	22.711	26.785	22.033	1.00	45.75
	1539	CZ	PHE	Α	856	21.553	25.999	21.877	1.00	42.35
	1540	N	TYR	Α	857	25.461	27.822	17.725	1.00	47.67
55	1541	CA	TYR	Α	857	25.283	29.238	17.487	1.00	47.32
	1542	С	TYR	Α	857	24.503	29.373	16.181	1.00	44.87
	1543	0	TYR	Α	857	23.404	29.945	16.159	1.00	42.27

,		HREE-DIMENS		RDINATI				THE LIGAN	В	ATOM
,	ATOM	ATOM TYPE	RESIDUE	#	X	Υ	Z	17.407	1.00	50.61
5	1544	СВ	TYR	A	857	26.667	29.901	16.807	1.00	54.67
	1545	CG	TYR	Α	857	26.684	31.282	17.593	1.00	59.56
	1546	CD1	TYR	Α	857	26.450	32.422		1.00	54.77
10	1547	CD2	TYR	A	857	26.935	31.454	15.442	1.00	58.68
	1548	CE1	TYR	Α	857	26.469	33.719	17.022		58.39
	1549	CE2	TYR	Α	857	26.953	32.728	14.860	1.00	61.97
	1550	CZ	TYR	Α	857	26.720	33.855	15.647	1.00	56.70
15	1551	ОН	TYR	Α	857	26.725	35.091	15.035	1.00	
	1552	N	GLN	Α	858	25.006	28.706	15.141	1.00	43.56
	1553	CA	GLN	Α	858	24.400	28.744	13.803	1.00	42.92
20	1554	С	GLN	Α	858	22.927	28.400	13.731	1.00	43.62
	1555	0	GLN	Α	858	22.173	29.017	12.988	1.00	47.41
	1556	СВ	GLN	Α	858	25.112	27.795	12.859	1.00	38.18
	1557	CG	GLN	Α	858	26.563	28.061	12.645	1.00	41.30
25	1558	CD	GLN	A	858	27.216	26.990	11.788	1.00	48.05
	1559	OE1	GLN	Α	858	28.399	27.051	11.521	1.00	60.25
	1560	NE2	GLN	Α	858	26.446	25.995	11.369	1.00	53.15
30	1561	N	LEU	Α	859	22.523	27.372	14.452	1.00	46.85
	1562	CA	LEU	A	859	21.136	26.956	14.407	1.00	44.50
	1563	С	LEU	Α	859	20.226	27.884	15.180	1.00	41.57
	1564	0	LEU	Α	859	19.091	28.129	14.764	1.00	41.55
35	1565	СВ	LEU	Α	859	20.998	25.529	14.919	1.00	49.03
	1566	CG	LEU	Α	859	21.571	24.412	14.044	1.00	51.91
	1567	CD1	LEU	Α	859	21.563	23.090	14.809	1.00	49.78
40	1568	CD2	LEU	Α	859	20.736	24.301	12.793	1.00	54.19
	1569	N	THR	Α	860	20.712	28.393	16.307	1.00	36.22
	1570	CA	THR	Α	860	19.910	29.300	17.111	1.00	36.58
	1571	С	THR	Α	860	19.694	30.592	16.322	1.00	39.98
45	1572	0	THR	Α	860	18.600	31.177	16.351	1.00	41.71
	1573		THR	Α	860	20.557	29.532	18.474	1.00	35.81
	1574		THR	A	860	21.942	29.877	18.304	1.00	38.10
50	1575		THR	Α	860	20.445	28.256	19.302	1.00	33.36
	1576		LYS	A	861	20.718	30.998	15.564	1.00	35.42
	1577		LYS	A	861	20.598	32.178	14.715	1.00	38.56
	1578		LYS	A	861	19.556	31.871	13.639	1.00	
55	1579		LYS	A	861	18.669	32.682	13.358	1.00	
	1580		LYS	A	861	21.93	32.530	14.076	1.00	35.42

TABLE 9 (continued)

	7	THREE-DIMENS	SIONAL COOF	RDINA	TES OF	AR IN COM	PLEX WIT	H THE LIGA	ND R188	31
	MOTA	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	1581	CG	LYS	Α	861	22.807	33.422	14.941	1.00	48.32
	1582	CD	LYS	Α	861	22.394	34.906	14.850	1.00	56.04
	1583	CE	LYS	Α	861	23.270	35.776	15.755	1.00	60.56
10	1584	NZ	LYS	Α	861	22.863	37.205	15.751	1.00	65.17
	1585	N	LEU	Α	862	19.644	30.667	13.075	1.00	46.55
	1586	CA	LEU	Α	862	18.690	30.228	12.069	1.00	39.38
45	1587	С	LEU	Α	862	17.272	30.273	12.642	1.00	40.85
15	1588	0	LEU	Α	862	16.353	30.720	11.954	1.00	45.44
	1589	СВ	LEU	Α	862	19.009	28.808	11.607	1:.00	41.98
	1590	CG	LEU	Α	862	17.987	28.298	10.587	1.00	49.48
20	1591	. CD1	LEU	Α	862	18.036	29.176	9.346	1.00	46.04
	1592	CD2	LEU	Α	862	18.245	26.832	10.228	1.00	47.86
	1593	N	LEU	Α	863	17.108	29.839	13.900	1.00	38.85
25	1594	CA	LEU	Α	863	15.807	29.824	14.575	1.00	37.02
23	1595	С	LEU	Α	863	15.265	31.223	14.689	1.00	35.94
	1596	0	LEU	Α	863	14.075	31.459	14.455	1.00	36.06
	1597	СВ	LEU	Α	863	15.915	29.232	15.980	1.00	43.64
30	1598	CG	LEU	Α	863	15.888	27.707	16.086	1.00	42.37
	1599	CD1	LEU	Α	863	15.854	27.238	17.548	1.00	35.50
	1600	CD2	LEU	Α	863	14.671	27.219	15.334	1.00	35.55
<i>35</i>	1601	N	ASP	Α	864	16.161	32.142	15.041	1.00	35.57
	1602	CA	ASP	Α	864	15.845	33.564	15.196	1.00	37.53
	1603	С	ASP	Α	864	15.341	34.254	13.898	1.00	38.46
	1604	0	ASP	Α	864	14.455	35.123	13.959	1.00	36.51
40	1605	СВ	ASP	Α	864	17.051	34.299	15.824	1.00	29.27
	1606	CG	ASP	Α	864	17.214	34.005	17.334	1.00	39.10
	1607	OD1	ASP	Α	864	16.388	33.270	17.927	1.00	42.54
45	1608	OD2	ASP	Α	864	18.174	34.526	17.947	1.00	37.49
	1609	N	SER	A	865	15.843	33.796	12.740	1.00	40.46
	1610	CA	SER	Α	865	15.476	34.302	11.393	1.00	35.87
	1611	С	SER	Α	865	14.004	34.116	11.058	1.00	37.22
50	1612	0	SER	Α	865	13.454	34.844	10.231	1.00	46.57
	1613	СВ	SER	Α	865	16.235	33.551	10.284	1.00	34.07
	1614	OG	SER	Α	865	17.577	33.266	10.622	1.00	46.76
55	1615	N	VAL	Α	866	13.398	33.095	11.650	1.00	35.77
	1616	CA	VAL	Α	866	12.013	32.752	11.399	1.00	35.13
	1617	С	VAL	Α	866	11.031	33.779	11.950	1.00	38.58

TABLE 9 (continued)

-	THREE-DIMENS	SIONAL COO	RDINA	TES OF	AR IN COM	IPLEX WIT	TH THE LIGA	ND R18	81
ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	A
1618	0	VAL	Α	866	9.973	34.057	11.353	1.00	(
1619	СВ	VAL	Α	866	11.686	31.354	12.004	1.00	2
1620	CG1	VAL	Α	866	10.252	30.944	11.666	1.00	2
1621	CG2	VAL	Α	866	12.666	30.322	11.482	1.00	3
1622	N	GLN	Α	867	11.395	34.366	13.081	1.00	3
1623	CA	GLN	Α	867	10.525	35.342	13.735	1.00	4
1624	С	GLN	Α	867	10.213	36.633	12.921	1.00	3
1625	0	GLN	Α	867	9.030	37.022	12.789	1.00	3
1626	СВ	GLN	Α	867	11.039	35.603	15.163	1.00	4
1627	CG	GLN	Α	867	11.248	34.307	15.987	1.00	3
1628	CD	GLN	Α	867	9.951	33.535	16.271	1.00	4
1629	OE1	GLN	Α	867	8.841	33.972	15.943	1.00	4
1630	NE2	GLN	Α	867	10.097	32.375	16.883	1.00	4
1631	N	PRO	Α	868	11.254	37.306	12.370	1.00	3
1632	CA	PRO	Α	868	11.071	38.522	11.569	1.00	3
1633	С	PRO	Α	868	10.156	38.173	10.407	1.00	3
1634	0	PRO	Α	868	9.132	38.815	10.173	1.00	3
1635	СВ	PRO	Α	868	12.477	38.796	11.052	1.00	3
1636	CG	PRO	Α	868	13.329	38.358	12.184	1.00	3
1637	CD	PRO	Α	868	12.690	37.069	12.631	1.00	3
1638	N	ILE	Α	869	10.494	37.075	9.740	1.00	3
1639	CA	ILE	Α	869	9.730	36.578	8.616	1.00	3
1640	С	ILE	Α	869	8.284	36.304	9.002	1.00	2
1641	0	ILE	Α	869	7.359	36.758	8.332	1.00	3
1642	СВ	ILE	Α	869	10.389	35.318	8.072	1.00	3
1643	CG1	ILE	Α	869	11.841	35.639	7.697	1.00	3
1644	CG2	ILE	Α	869	9.630	34.813	6.870	1.00	2
1645	CD1	ILE	Α	869	12.604	34.477	7.120	1.00	3
1646	N	ALA	Α	870	8.089	35.599	10.109	1.00	2
1647	CA	ALA	Α	870	6.750	35.276	10.593	1.00	3
1648	С	ALA	Α	870	6.010	36.567	10.913	1.00	3.
1649	0	ALA	Α	870	4.793	36.692	10.672	1.00	3
1650	СВ	ALA	Α	870	6.838	34.402	11.825	1.00	2
1651	N	ARG	Α	871	6.754	37.534	11.441	1.00	3
1652	CA	ARG	Α	871	6.201	38.845	11.766	1.00	38
1653	С	ARG	Α	871	5.587	39.457	10.509	1.00	36
1654	0	ARG	Α	871	4.411	39.824	10.496	1.00	33

TABLE 9 (continued)

	7	THREE-DIMENS	IONAL COO	RDINA	TES OF	AR IN COM	IPLEX WIT	H THE LIGA	ND R188	31
	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
5	1655	СВ	ARG	Α	871	7.303	39.754	12.271	1.00	42.63
	1656	CG	ARG	Α	871	6.935	41.209	12.267	1.00	48.87
	1657	CD	ARG	Α	871	6.488	41.628	13.610	1.00	39.03
10	1658	NE	ARG	Α	871	5.783	42.900	13.554	1.00	54.34
	1659	, CZ	ARG	Α	871	5.420	43.599	14.629	1.00	58.85
	1660	NH1	ARG	Α	871	5.717	43.140	15.841	1.00	58.33
46	1661	NH2	ARG	Α	871	4.700	44.713	14.497	1.00	67.98
15	1662	N	GLU	Α	872	6.388	39.518	9.447	1.00	33.87
	1663	CA	GLU	Α	872	5.954	40.047	8.149	1.00	36.69
	1664	C	GLU	Α	872	4.721	39.346	7.610	1.00	35.07
20	1665	0	GLU	A	872	3.835	39.982	7.039	1.00	38.97
	1666	СВ	GLU	Α	872	7.074	39.920	7.099	1.00	48.05
	1667	CG	GLU	4	872	7.897	41.206	6.847	1.00	57.85
25	1668	CD	GLU	A	872	8.928	41.037	5.731	1.00	68.10
25	1669	OE1	GLU	A	872	9.952	40.366	5.990	1.00	74.25
	1670	OE2	GLU	Α	872	8.722	41.566	4.606	1.00	66.63
	1671	N	LEU	Α	873	4.671	38.027	7.747	1.00	37.62
30	1672	CA	LEU	Α	873	3.528	37.281	7.244	1.00	35.57
	1673	С	LEU	A	873	2.295	37.630	8.027	1.00	36.96
	1674	0	LEU	Α	873	1.187	37.664	7.475	1.00	37.28
35	1675	СВ	LEU	Α	873	3.794	35.790	7.331	1.00	46.12
	1676	CG	LEU	Α	873	5.003	35.377	6.498	1.00	44.82
	1677	CD1	LEU	Α	873	5.185	33.921	6.706	1.00	46.86
	1678	CD2	LEU	Α	873	4.807	35.680	5.024	1.00	41.83
40	1679	N	HIS	Α	874	2.505	37.887	9.320	1.00	32.90
	1680	CA	HIS	Α	874	1.430	38.269	10.242	1.00	37.34
	1681	С	HIS	Α	874	0.775	39.603	9.828	1.00	38.25
45	1682	0	HIS	Α	874	-0.457	39.758	9.814	1.00	36.81
	1683	СВ	HIS	Α	874	1.997	38.405	11.660	1.00	42.16
	1684	CG	HIS	Α	874	2.251	37.099	12.352	1.00	46.12
	1685	ND1	HIS	Α	874	1.296	36.104	12.440	1.00	42.36
50	1686	CD2	HIS	Α	874	3.339	36.643	13.015	1.00	41.95
	1687	CE1	HIS	Α	874	1.790	35.088	13.130	1.00	41.59
	1688	NE2	HIS	Α	874	3.028	35.390	13.486	1.00	44.61
55	1689	N	GLN	Α	875	1.628	40.572	9.520	1.00	38.39
	1690	CA	GLN	A	875	1.217	41.906	9.090	1.00	36.36
	1691	С	GLN	Α	875	0.363	41.731	7.845	1.00	34.57

				TAE	LE9 (C	ontinued)	I FX WITH	THE LIGAN	D R1881	
	Т	HREE-DIMENS				Y	Z	occ	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	#	X	-0.822	42.017	7.846	1.00	42.38
5	1692	0	GLN	A	875		42.727	8.765	1.00	38.26
	1693	СВ	GLN	A	875	2.471		8.555	1.00	44.03
	1694	CG	GLN	A	875	2.247	44.182	9.800	1.00	47.03
o	1695	CD	GLN	Α	875	1.775	44.875		1.00	42.92
	1696	OE1	GLN	Α	875	2.554	45.079	10.754	1.00	34.68
	1697	NE2	GLN	Α	875	0.504	45.272	9.799		33.26
	1698	N	PHE	Α	876	0.943	41.081	6.849	1.00	33.07
5	1699	CA	PHE	A	876	0.284	40.845	5.582	1.00	
	1700	С	PHE	A	876	-1.070	40.161	5.677	1.00	35.06
	1701	0	PHE	Α	876	-2.036	40.573	5.032	1.00	34.48
20	1702	СВ	PHE	Α	876	1.212	40.017	4.692	1.00	39.86
	1703	CG	PHE	Α	876	0.676	39.782	3.313	1.00	39.61
	1704	CD1	PHE	A	876	-0.320	38.846	3.085	1.00	41.67
	1705	CD2	PHE	A	876	1.163	40.507	2.248	1.00	39.57
25	1706	CE1	PHE	A	876	-0.823	38.650	1.838	1.00	44.63
	1707	CE2	PHE	Α	876	0.665	40.318	0.991	1.00	40.20
	1708	CZ	PHE	A	876	-0.329	39.385	0.780	1.00	49.53
	1709	N	THR	A	877	-1.126	39.053	6.405	1.00	40.28
30	1710	CA	THR	A	877	-2.380	38.320	6.505	1.00	38.84
		C	THR	A	877	-3.450	39.157	7.208	1.00	41.69
	1711	0	THR	A	877	-4.594	39.193	6.767	1.00	41.63
35	1712	СВ	THR	A	877	-2.193	36,900	7.135	1.00	33.79
	1713	OG1	THR	A	877	-3.364	36.117	6.886	1.00	38.07
	1714		THR	A	877	-1.937	36.956	8.640	1.00	26.06
	1715	CG2	PHE	A	878	-3.062	39.889	8.251	1.00	39.96
40	1716	N OA	PHE	A	878	-3.997	40.737	8.984	1.00	38.02
	1717	+	PHE	A	878	-4.600	+	8.006	1.00	38.85
	1718			A	878	-5.821	+	7.916	1.00	33.84
45	1719	+	PHE	$\frac{1}{A}$	878	-3.248	-	10.109	1.00	41.2
	1720		PHE	$-\!\!\!+\!\!\!-$				10.764	1.00	45.7
	1721		PHE	^^					1.00	47.1
	1722		PHE	A	 -	+	+		1.00	47.8
50	1723		PHE	^^			 		1.00	+
	1724		PHE	A				 	1.00	+
	1725		PHE	^					1.00	+
55	1726		PHE	A					1.00	
	1727	7 N	ASP	^_A	 -		+		1.00	
	1728	3 CA	ASP		879	-4.07	8 43.395	0.242		

TABLE 9 (continued)

	7	HREE-DIMENS	SIONAL COO			AR IN COM	IPLEX WIT	H THE LIGA	ND R188	31
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	1729	С	ASP	Α	879	-4.975	42.733	5.201	1.00	41.74
	1730	0	ASP	Α	879	-6.013	43.272	4.797	1.00	45.58
	1731	СВ	ASP	Α	879	-2.799	43.987	5.597	1.00	50.23
10	1732	CG	ASP	Α	879	-1.938	44.849	6.595	1.00	65.18
	1733	OD1	ASP	Α	879	-2.253	44.919	7.821	1.00	64.91
	1734	OD2	ASP	Α	879	-0.930	45.461	6.140	1.00	57.87
	1735	N	LEU	Α	880	-4.581	41.542	4.784	1.00	39.59
15	1736	CA	LEU	Α	880	-5.349	40.778	3.824	1.00	41.16
	1737	С	LEU	Α	880	-6.737	40.477	4.404	1.00	41.39
	1738	. 0	LEU	Α	880	-7.720	40.472	3.682	1.00	46.61
20	1739	СВ	LEU	Α	880	-4.594	39.483	3.484	1.00	41.26
	1740	CG	LEU	Α	880	-5.117	38.492	2.429	1.00	46.22
	1741	CD1	LEU	Α	880	-5.910	39.174	1.299	1.00	39.53
25	1742	CD2	LEU	Α	880	-3.925	37.702	1.873	1.00	45.58
25	1743	N	LEU	Α	881	-6.826	40.273	5.713	1.00	46.94
	1744	CA	LEU	Α	881	-8.113	39.974	6.330	1.00	46.60
	1745	C	LEU	Α	881	-9.028	41.185	6.310	1.00	50.61
30	1746	0	LEU	Α	881	-10.188	41.070	5.925	1.00	50.82
	1747	СВ	LEU	Α	881	-7.964	39.468	7.775	1.00	38.43
	1748	CG	LEU	Α	881	-9.282	39.274	8.551	1.00	37.70
35	1749	CD1	LEU	Α	881	-10.162	38.204	7.887	1.00	30.98
33	1750	CD2	LEU	Α	881	-8.979	38.918	9.997	1.00	30.24
	1751	N	ILE	Α	882	-8.531	42.341	6.746	1.00	48.70
	1752	CA	ILE	Α	882	-9.390	43.517	6.752	1.00	55.61
40	1753	С	ILE	Α	882	-9.806	43.885	5.314	1.00	53.19
	1754	0	ILE	A	882	-10.966	44.227	5.076	1.00	56.55
	1755	СВ	ILE	Α	882	-8.797	44.720	7.603	1.00	54.73
45	1756	CG1	ILE	Α	882	-7.489	45.252	7.008	1.00	58.00
	1757	CG2	ILE	Α	882	-8.566	44.271	9.054	1.00	42.17
	1758	CD1	ILE	Α	882	-6.825	46.382	7.811	1.00	61.98
	1759	N	LYS	Α	883	-8.917	43.674	4.343	1.00	51.98
50	1760	CA	LYS	Α	883	-9.229	43.976	2.939	1.00	53.80
	1761	С	LYS	Α	883	-10.126	42.935	2.296	1.00	56.69
	1762	0	LYS	Α	883	-10.888	43.257	1.389	1.00	56.03
<i>55</i>	1763	СВ	LYS	Α	883	-7.976	44.008	2.073	1.00	49.48
	1764	CG	LYS	Α	883	-7.056	45.152	2.279	1.00	51.98
	1765	CD	LYS	Α	883	-5.970	45.061	1.236	1.00	57.39

TABLE 9 (continued)

				1/1	TO OF 1	continued)	PI FX WITH	THE LIGANI	D R1881	_
	TI	HREE-DIMENS		1		Y	Z	occ	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	#	X	-4,752	45.885	1.601	1.00	65,28
5	1766	CE	LYS	Α	883	-3.755	45.773	0.507	1.00	72.32
	1767	NZ	LYS	Α	883	-10.000	41.687	2.758	1.00	64.45
[1768	N	SER	A	884	-10.721	40.515	2.228	1.00	60.51
10	1769	CA	SER	A	884	-10.721	40.765	1.543	1.00	57.37
	1770	С	SER	Α	884	 	40.549	0.334	1.00	55.96
ĺ	1771	0	SER	A -	884	-12.167 -10.873	39,434	3.304	1.00	60.86
	1772	СВ	SER	A	884	 	39.933	4.437	1.00	69.00
15	1773	OG	SER	A	884	-11.559	41.258	2.308	1.00	59.05
	1774	N	HIS	A	885	-13.029	41.558	1.826	1.00	68.14
	1775	CA	HIS	A_	885	-14.376		0.424	1.00	74.11
20	1776	С	HIS	A	885	-14.388	42.167	-0.515	1.00	78.87
	1777	0	HIS	A	885	-14.901	41.561	2.781	1.00	74.25
	1778	СВ	HIS	A	885	-15.091	10.050	4.241	1.00	79.02
	1779	CG	HIS	A	885	-14.848		 	1.00	75.36
25	1780	ND1	HIS	A	885	-13.766		4.919	1.00	74.74
	1781	CD2	HIS	A	885	-15.545		5.135	1.00	69.84
	1782	CE1	HIS	A	885	-13.802			1.00	76.42
30	1783	NE2	HIS	Α	885				1.00	77.20
	1784	N	MET	Α	886	-13.813				75.99
	1785	CA	MET	Α	886	-13.78			1.00	66.55
	1786	С	MET	Α	886	-12.80		+	1.00	63.97
35	1787	0	MET	Α	886	-12.84			1.00	87.39
	1788	СВ	MET	Α	886	-13.57			1.00	94.48
	1789	CG	MET	Α	886	6 -12.13			1.00	
40	1790		MET	Α	88	6 -11.78	8 47.728		1.00	
	1791		MET	A	88	6 -10.21	2 48.24		1.00	+
	1792		VAL	1	88	7 -11.94	42.58		1.00	
	1793		VAL	1	88	7 -10.96	8 42.05		1.00	
45	1794		VAL	1	88	7 -11.14	46 40.56		1.00	
	1795		VAL		A 88	7 -10.2	63 39.93		1.00	
	1796		VAL	1	A 88	-9.5	25 42.33		1.00	+
50	179		VAL		A 88	-9.0	81 41.27		1.00	
	179		VAL		A 88	37 -8.5	78 42.45		1.0	
	179		SER		A 88	38 -12.2	93 40.03		1.0	
	180		SER	$\neg $	A 8	88 -12.7	52 38.64	43 -2.786	1.0	
55	180		SER		A 8	88 -11.9	37.40		1.0	-
	180	- 	SER		A 8	88 -12.	96 36.2	92 -2.885	1.0	0 62.0

TABLE 9 (continued)

	THREE-DIMENS	SIONAL COO	RDINA	TES OF	AR IN COM	IPLEX WIT	H THE LIGA	ND R188	31
ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	AT
1803	СВ	SER	Α	888	-13.368	38.463	-4.169	1.00	51
1804	OG	SER	Α	888	-12.417	38.680	-5.181	1.00	58
1805	N	VAL	Α	889	-10.918	37.579	-1.529	1.00	70
1806	CA	VAL	Α	889	-10.079	36.475	-1.036	1.00	69
1807	С	VAL	Α	889	-10.894	35.856	0.115	1.00	71
1808	0	VAL	Α	889	-11.475	36.609	0.910	1.00	70
1809	СВ	VAL	Α	889	-8.740	37.003	-0.461	1.00	68
1810	CG1	VAL	Α	889	-7.880	35.843	-0.016	1.00	73
1811	CG2	VAL	Α	889	-8.006	37.859	-1.489	1.00	65
1812	N	ASP	Α	890	-10.969	34.520	0.203	1.00	74
1813	CA	ASP	Α	890	-11.758	33.870	1.271	1.00	72
1814	С	ASP	Α	890	-10.920	33.314	2.457	1.00	69
1815	0	ASP	Α	890	-9.783	32.831	2.270	1.00	70
1816	СВ	ASP	Α	890	-12.783	32.857	0.666	1.00	72
1817	CG	ASP	Α	890	-12.332	31.385	0.735	1.00	80
1818	OD1	ASP	Α	890	-11.326	30.981	0.093	1.00	76
1819	OD2	ASP	Α	890	-13.045	30.618	1.413	1.00	78
1820	N	PHE	Α	891	-11.431	33.508	3.680	1.00	59
1821	CA	PHE	Α	891	-10.746	33.068	4.902	1.00	52
1822	С	PHE	Α	891	-11.598	32.045	5.665	1.00	49
1823	0	PHE	Α	891	-12.740	32.326	6.012	1.00	50
1824	СВ	PHE	Α	891	-10.474	34.274	5.848	1.00	55
1825	CG	PHE	Α	891	-9.223	35.088	5.518	1.00	47
1826	CD1	PHE	Α	891	-9.250	36.101	4.554	1.00	40
1827	CD2	PHE	Α	891	-8.027	34.837	6.171	1.00	45
1828	CE1	PHE	Α	891	-8.107	36.842	4.246	1.00	34
1829	CE2	PHE	Α	891	-6.876	35.585	5.862	1.00	46
1830	CZ	PHE	Α	891	-6.922	36.582	4.900	1.00	37
1831	N	PRO	Α	892	-11.052	30.845	5.926	1.00	44
1832	CA	PRO	Α	892	-11.782	29.806	6.660	1.00	39
1833	С	PRO	Α	892	-11.976	30.370	8.058	1.00	44
1834	0	PRO	Α	892	-11.052	30.952	8.621	1.00	46
1835	СВ	PRO	Α	892	-10.792	28.648	6.669	1.00	45
1836	CG	PRO	Α	892	-9.970	28.878	5.420	1.00	46
1837	CD	PRO	Α	892	-9.737	30.353	5.480	1.00	46
1838	N	GLU	Α	893	-13.176	30.234	8.604	1.00	51
1839	CA	GLU	Α	893	-13.508	30.792	9.914	1.00	51

TABLE 9 (continued)

				TA	BLE	9 (00	ontinued)	OI FX	WITH T	HE LIGAND	R18	81	
	T	HREE-DIMENS		RDINA	TES	OF AF		Z		occ	В	ATO	МС
	MOTA	ATOM TYPE	RESIDUE	#		×	Y -12.577	30.5		1.077	1.00	52	2.74
5	1840	С	GLU	A	+-		-12.321	31.4			1.00	58	3.39
	1841	0	GLU	A	+-	93		30.4		0.304	1.00	59	9.05
	1842	СВ	GLU	A	+-	393	-14.937	31.4			1.00	7:	5.65
10	1843	CG	GLU	A		393	-15.987	31.		8.224	1.00	8	2.95
,,	1844	CD	GLU	A	-	393	-15.800	<u> </u>	745	7.418	1.00	8	4.06
	1845	OE1	GLU	A		893	-15.706		891	7.845	1.00	8	6.37
	1846	OE2	GLU	_ A		893	-15.762	┼		11.205	1.00) 5	2.94
15	1847	N	MET	_ A		894	-12.043			12.329	1.00) 5	57.23
	1848	CA	MET			894	-11.152	+		12.239	1.00) !	57.71
	1849	С	MET	_ ^	-	894	-9.942	+		13.230	1.0	0 0	60.99
20	1850	0	MET	A	`-	894	-9.458	+-	.607	12,332	1.0	0	59.88
	1851	СВ	MET	_ A	1	894	-10.720	+-:	7.205	13.522	1.0	0	68.32
	1852	CG	MET	^		894	-9.861	+-	5.428	13.821	1.0	0	73.67
	1853	SD	MET		1	894	-9.861	+-	4.840	12.166	1.0	00	72.54
25	1854	CE	MET		4	894	-9.322		0.130	11.021	1.0	00	61.08
	1855	N	MET		<u> </u>	895	-9.466	+-	0.948	10.744	1.0	00	58.05
	1856	CA	MET		A	895	-8.311	+	2.431	10.789	1.0	00	56.79
30	1857	С	MET		A	895	-8.67	+	3.226	11.422	1.	00	56.34
	1858	3 0	MET		A	895	-7.97	-	30.527	9.396	1.	00	57.93
	1859	Э СВ	MET		A	895	-	-	31.548	8.720	1.	00	67.27
	186	CG CG	MET		A	895			30.991	7,072	1	.00	79.81
35	186	1 SD	MET		Α	895		_	31.161	6.982	1	.00	78.99
	186	2 CE	MET		Α	895		-	32.802	10.152	1	.00	49.66
	186	3 N	ALA		Α	896		-+	34.186	10.170	+	.00	46.9
40	186	4 CA	ALA	_	<u> </u>	896		-+	34.621	11.627	+	.00	50.1
	186	55 C	ALA		Α	896			35.672	11.971	+-	.00	55.5
	186	66 O	ALA		Α	896			34.311	9.591		1.00	45.0
	180	67 CB	ALA		Α	89			33.759	12.496	-	1.00	52.2
45	18	68 N	GLU	,	_A	89		+	34.053	13.928	十	1.00	52.7
	18	69 CA	GLU	J	Α	89			34.244	14.591	十	1.00	48.3
	18	70 C	GLI	ر ر	A	89			35.144	15.402	\dashv	1.00	49.
50	18	71 0	GL	J	Α	89		253	32.990	14.664	$-\dagger$	1.00	54.
	18	72 CB	GL	U	Α	89	- 		32.990	+	-+	1.00	65.
	18	373 CG	GL	U	Α		97 -11.		32.725	1	\dashv	1.00	75.
		374 CD	GL	U	Α		97 -13.		32.723		-+	1.00	78
55	11	875 OE1	GL	.U	A			284	31.868	1	-+	1.00	79
	1.	876 OE2	2 GL	.U	A	8	97 -13	.167	31.000	, ,,,,,,			

TABLE 9 (continued)

	٦	THREE-DIMENS	SIONAL COOF	RDINA	TES OF	AR IN COM	PLEX WIT	H THE LIGA	ND R188	31
	АТОМ	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	1877	N	ILE	Α	898	-8.477	33.417	14.241	1.00	45.91
	1878	CA	ILE	Α	898	-7.160	33.561	14.836	1.00	43.63
	1879	С	ILE	Α	898	-6.510	34.843	14.323	1.00	41.42
10	1880	0	ILE	Α	898	-5.891	35.578	15.087	1.00	41.91
	1881	СВ	ILE	Α	898	-6.275	32.288	14.567	1.00	45.82
	1882	CG1	ILE	Α	898	-6.797	31.125	15.430	1.00	48.14
	1883	CG2	ILE	Α	898	-4.776	32.537	14.847	1.00	34.18
15	1884	CD1	ILE	Α	898	-5.911	29.894	15.425	1.00	60.11
	1885	N	ILE	Α	899	-6.734	35.177	13.064	1.00	37.89
	1886	CA	ILE	A	899	-6.105	36.372	12.526	1.00	40.46
20	1887	С	ILE	Α	899	-6.640	37.624	13.202	1.00	39.91
	1888	0	ILE	A	899	-5.880	38.533	13.524	1.00	36.62
	1889	СВ	ILE	Α	899	-6.290	36.486	10.986	1.00	46.34
25	1890	CG1	ILE	Α	899	-5.722	35.250	10.280	1.00	51.08
23	1891	CG2	ILE	Α	899	-5.612	37.759	10.448	1.00	45.77
	1892	CD1	ILE	Α	899	-4.239	34.978	10.550	1.00	53.92
	1893	N	SER	Α	900	-7.927	37.612	13.520	1.00	39.54
30	1894	CA	SER	Α	900	-8.576	38.764	14.129	1.00	39.63
	1895	С	SER	Α	900	-8.474	38.925	15.652	1.00	41.36
	1896	0	SER	Α	900	-8.821	39.970	16.188	1.00	46.90
35	1897	СВ	SER	Α	900	-10.048	38.823	13.670	1.00	37.01
	1898	OG	SER	Α	900	-10.963	38.377	14.652	1.00	40.29
	1899	N	VAL	Α	901	-7.942	37.938	16.350	1.00	34.58
	1900	CA	VAL	Α	901	-7.889	38.027	17.799	1.00	32.25
40	1901	С	VAL	Α	901	-6.516	37.812	18.388	1.00	33.93
	1902	0	VAL	Α	901	-6.116	38.496	19.325	1.00	37.49
	1903	СВ	VAL	Α	901	-8.844	36.967	18.443	1.00	40.69
45	1904	CG1	VAL	Α	901	-8.793	37.045	19.976	1.00	37.09
	1905	CG2	VAL	Α	901	-10.273	37.146	17.930	1.00	37.39
	1906	N	GLN	Α	902	-5.813	36.820	17.865	1.00	38.32
	1907	CA	GLN	Α	902	-4.504	36.475	18.376	1.00	36.30
50	1908	С	GLN	Α	902	-3.432	37.222	17.639	1.00	39.26
	1909	0	GLN	Α	902	-2.419	37.566	18.234	1.00	41.22
	1910	СВ	GLN	Α	902	-4.247	34.958	18.276	1.00	36.78
55	1911	CG	GLN	Α	902	-5.309	34.053	18.926	1.00	41.09
	1912	CD	GLN	Α	902	-5.529	34.320	20.418	1.00	47.88
	1913	OE1	GLN	Α	902	-6.664	34.277	20.899	1.00	56.15

				IAE	EE 9 (C	ontinued)	DI EY WITH	THE LIGAN	D R1881	
	Т	HREE-DIMENS			X	Y	Z	occ	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	#		-4.447	34.587	21.155	1.00	43.52
	1914	NE2	GLN	A	902	-3.621	37.449	16.340	1.00	40.86
	1915	N N	VAL	A		-2.611	38.167	15.569	1.00	38.57
	1916	CA	VAL	A	903	-2.431	39.624	16.026	1.00	37.36
o	1917	С	VAL	A	903	-1.294	40.077	16.171	1.00	39.48
	1918	0	VAL	A	903	-2.841	38.035	14.028	1.00	42.29
	1919	СВ	VAL	A	903	-1.947	38.994	13.270	1.00	39.28
	1920	CG1	VAL	A	903		36.622	13.574	1.00	39.72
15	1921	CG2	VAL	A .	903	-2.503	40.366	16.292	1.00	30.75
	1922	N	PRO	A	904	-3.534	41.753	16.738	1.00	32.91
	1923	CA	PRO	A	904	-3.373	├─── -	17.945	1.00	36.72
20	1924	С	PRO	A	904	-2.436	41.878	18.019	1.00	40.29
	1925	0	PRO	A	904	-1.624	42.801	17.092	1.00	29.43
	1926	СВ	PRO	A	904	-4.797	42.161		1.00	30.40
	1927	CG	PRO	A	904	-5.571	41.493	16.035	1.00	34.37
25	1928	CD	PRO	A	904	-4.962	40.088	16.042	1.00	36.01
	1929	N	LYS	A	905	-2.489	40.909	18.851	1.00	32.07
	1930	CA	LYS	A	905	-1.632		20.031	1.00	30.44
30	1931	С	LYS	Α	905	-0.149	 	19.677		33.55
	1932	0	LYS	A	905	0.688	+	20.422	1.00	34.01
	1933	СВ	LYS	A	905	-1.995		21.022	1.00	37.81
	1934	CG	LYS	Α	905	-3.485		21.377	1.00	51.29
35	1935	CD	LYS	Α	905	-3.751		22.476	1.00	51.15
	1936	CE	LYS	Α	905	-5.233		22.886	1.00	63.78
	1937	NZ	LYS	Α	905	-5.552		23.987	1.00	38.99
40	1938	N	ILE	А	906	0.185	40.258	18.545	1.00	
	1939	CA	ILE	Α	906	1.588	40.103	18.142	1.00	43.43
	1940	С	ILE	Α	906	2.076	41.353		1.00	46.59
	1941	0	ILE	А	906	3.20	3 41.817		1.00	+
45	1942	СВ	ILE	A	906	1.81	8 38.828		1.00	+
	1943		ILE	A	906	1.45	3 37.545		1.00	
	1944		ILE	A	906	3.28	9 38.764	16.745	1.00	
50	1945		ILE	A	906	1.38	6 36.270	17.189	1.00	
	1946		LEU	A	907	1.21	7 41.891	16.587	1.00	
	1947		LEU	A	907	1.51	6 43.111	15.831	1.00	
	194		LEU		907	7 1.63	9 44.317	16.784	1.00	
<i>55</i>	194		LEU	- F	90	7 2.49	6 45.199	16.590	1.00	41.92
	194		LEU			7 0.43	37 43.32	4 14.751	1.00	43.43

TABLE 9 (continued)

	7	THREE-DIMENS	SIONAL COOL	RDINA	TES OF	AR IN COM	IPLEX WIT	H THE LIGA	ND R188	31
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	1951	CG	LEU	Α	907	0.323	42.131	13.782	1.00	31.27
	1952	CD1	LEU	Α	907	-0.857	42.290	12.901	1.00	29.15
	1953	CD2	LEU	Α	907	1.580	41.967	12.953	1.00	29.66
10	1954	N	SER	Α	908	0.851	44.282	17.858	1.00	36.02
	1955	CA	SER	Α	908	0.871	45.328	18.852	1.00	41.77
	1956	С	SER	Α	908	1.943	45.131	19.931	1.00	45.83
	1957	0	SER	Α	908	2.115	45.985	20.788	1.00	57.61
15	1958	СВ	SER	Α	908	-0.519	45.531	19.479	1.00	44.15
	1959	OG	SER	Α	908	-0.913	44.474	20.334	1.00	47.22
	1960	N	GLY	Α	909	2.684	44.030	19.886	1.00	40.63
20	1961	CA	GLY	A	909	3.726	43.813	20.877	1.00	31.68
	1962	С	GLY	Α	909	3.324	43.227	22.233	1.00	37.71
	1963	0	GLY	Α	909	4.173	43.163	23.129	1.00	42.65
05	1964	N	LYS	Α	910	2.071	42.791	22.401	1.00	33.50
25	1965	CA	LYS	Α	910	1.619	42.182	23.673	1.00	42.03
	1966	С	LYS	Α	910	2.064	40.702	23.839	1.00	41.10
	1967	0	LYS	Α	910	2.036	40.137	24.932	1.00	39.99
30	1968	СВ	LYS	Α	910	0.100	42.320	23.805	1.00	41.10
	1969	CG	LYS	Α	910	-0.357	43.751	23.582	1.00	45.52
	1970	CD	LYS	Α	910	-1.830	43.904	23.726	1.00	40.97
35	1971	CE	LYS	Α	910	-2.190	43.976	25.163	1.00	42.32
55	1972	NZ	LYS	Α	910	-3.651	43.819	25.260	1.00	53.43
	1973	N	VAL	Α	911	2.497	40.114	22.728	1.00	42.05
	1974	CA	VAL	Α	911	2.992	38.746	22.624	1.00	35.21
40	1975	C	VAL	Α	911	4.267	38.912	21.806	1.00	36.16
	1976	0	VAL	Α	911	4.224	39.387	20.671	1.00	37.87
	1977	СВ	VAL	Α	911	2.025	37.872	21.822	1.00	29.65
45	1978	CG1	VAL	Α	911	2.661	36.551	21.476	1.00	33.30
	1979	CG2	VAL	Α	911	0.736	37.674	22.588	1.00	35.10
	1980	N	LYS	Α	912	5.396	38.504	22.358	1.00	35.80
:	1981	CA	LYS	Α	912	6.638	38.677	21.653	1.00	36.47
50	1982	С	LYS	Α	912	7.451	37.409	21.556	1.00	40.23
	1983	0	LYS	A	912	7.293	36.472	22.334	1.00	39.68
	1984	СВ	LYS	Α	912	7.483	39.752	22.347	1.00	37.13
55	1985	CG	LYS	Α	912	7.952	39.353	23.729	0.00	38.33
	1986	CD	LYS	Α	912	8.846	40.405	24.332	0.00	39.07
	1987	CE	LYS	Α	912	9.124	40.089	25.784	0.00	39.77

				TAE	BLE 9 (continued)	4DLE	V WITH	THE LIGANI	D R1881	
	TI	HREE-DIMENS		DINAT			APLE	z	occ	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	#	X	Y		.200	26.423	0.00	40.28
5	1988	NZ	LYS	Α	912	9.862	+	+	20.517	1.00	39.61
	1989	N	PRO	Α	913	8.266		.333	20.249	1.00	40.14
	1990	CA	PRO	Α	913	9.146	+	.208	21.301	1.00	36.50
10	1991	С	PRO	Α	913	10.247	+	5.181	21.893	1.00	38.67
	1992	0	PRO	Α	913	10.565	+-	7.200	18.875	1.00	41.93
	1993	СВ	PRO	Α	913	9.711		5.564		1.00	44.72
	1994	CG	PRO	Α	913	8.534		7.200	18.210	1.00	42.22
15	1995	CD	PRO	A	913	8.060		8.134	19.296	1.00	34.68
	1996	N	ILE	Α	914	10.813	-	5.008	21.538		36.82
	1997	CA	ILE	Α	914	11.883	3 3	4.848	22.497	1.00	40.11
00	1998	С	ILE	Α	914	13.08	5 3	4.508	21.654	1.00	43.44
20	1999	0	ILE	Α	914	13.12	9 3	3.460	21.029	1.00	ļ
	2000	СВ	ILE	A	914	11.62	5 3	3.663	23.434	1.00	38.93
	2001	CG1	ILE	A	914	10.31	1 3	33.834	24.173	1.00	32.49
25	2002	CG2	ILE	A	914	12.74	3 3	33.540	24.435	1.00	46.36
	2002	CD1	ILE	A	914	9.91	7 3	32.567	24.899	1.00	39.70
	2003	N N	TYR	A	915	14.04	7 3	35.409	21.603	1.00	45.62
		CA	TYR	A	915	15.23	35 3	35.191	20.798	1.00	45.53
30	2005	C	TYR	A	915	16.35	52	34.582	21.608	1.00	47.03
	2006	 	TYR	A	915	16.3	59	34.665	22.833	1.00	51.25
	2007		TYR	A	915	15.7	17	36.510	20.165	1.00	38.58
35	2008		TYR	A		5 14.7	78	37.052	19.122	1.00	36.78
	2009		TYR	A		5 13.6	00	37.695	19.484	1.00	38.75
	2010		TYR	A		5 15.0	42	36.875	17.767	1.00	47.40
	2011		TYR		- 		96	38.141	18.527	1.00	49.22
40	2012		TYR	- F		- 	42	37.317	16.786	1.00	52.13
	2013				91		69	37.952	17.175	1.00	56.55
	2014		TYR	-+-	91			38.377	16.212	1.0	55.60
45	2015		TYR		-	- 	+	33.964	20.915	1.0	0 46.2
	2010		PHE				+	33.376	21.580	1.0	0 44.6
	201		PHE				487	34.457		1.0	0 44.0
	201	в С	PHE				132	34.568		1.0	0 47.6
50	201	9 0	PHE		A 91	- 	993	32.180		1.0	0 42.4
	202	0 CB	PHE	-+			213	30.915		1.0	00 44.0
	202	1 CG	PHE				006	30.70		1.0	00 46.3
55	202	2 CD1	PHE					29.94	21.075	1.0	00 47.
33	202	23 CD2	PHE	+-			670	29.55			00 45.5
	202	24 CE1	PHE		A 9	16 16	.263	29.55	20.570		

	7	HREE-DIMENS	SIONAL COO	RDINA	TES OF	AR IN COM	PLEX WIT	H THE LIGA	ND R188	31
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	2025	CE2	PHE	Α	916	17.939	28.789	22.098	1.00	46.95
!	2026	CZ	PHE	Α	916	16.732	28.594	21.426	1.00	45.10
	2027	N	HIS	Α	917	19.603	35.303	20.689	1.00	46.97
10	2028	CA	HIS	Α	917	20.611	36.352	20.694	1.00	47.06
	2029	С	HIS	Α	917	20.043	37.777	20.743	1.00	52.16
	2030	0	HIS	Α	917	20.353	38.603	19.896	1.00	57.53
	2031	СВ	HIS	Α	917	21.524	36.170	19.471	1.00	49.03
15	2032	CG	HIS	Α	917	21.994	34.756	19.246	1.00	43.80
	2033	ND1	HIS	Α	917	23.287	34.340	19.494	1.00	47.63
	2034	CD2	HIS	Α	917	21.343	33.670	18.762	1.00	48.20
20	2035	CE1	HIS	Α	917	23.414	33.065	19.173	1.00	51.22
	2036	NE2	HIS	Α	917	22.248	32.631	18.726	1.00	47.78
	2037	N	THR	Α	918	19.206	38.052	21.735	1.00	62.03
05	2038	CA	THR	Α	918	18.597	39.381	21.917	1.00	72.18
25	2039	С	THR	Α	918	19.558	40.395	22.571	1.00	75.33
	2040	0	THR	Α	918	19.150	41.565	22.781	1.00	78.71
	2041	СВ	THR	Α	918	17.378	39.309	22.847	1.00	73.07
30	2042	OG1	THR	Α	918	16.840	37.980	22.842	1.00	72.53
	2043	CG2	THR	Α	918	16.301	40.339	22.419	1.00	76.16
	2044	ОХТ	THR	Α	918	20.674	39.997	22.964	1.00	76.97
35	2045		THR	Α	918					
33	2046	C1	R18	Α	1000	0.414	28.070	4.103	1.00	47.66
	2047	C2	R18	Α	1000	1.195	26.999	4.832	1.00	49.34
	2048	С3	R18	Α	1000	2.661	27.140	4.532	1.00	53.90
40	2049	C4	R18	Α	1000	3.174	28.457	4.794	1.00	55.05
	2050	C5	R18	Α	1000	2.367	29.553	4.780	1.00	50.29
	2051	C6	R18	Α	1000	2.973	30.906	5.116	1.00	47.48
45	2052	C7	R18	Α	1000	2.207	32.030	4.457	1.00	46.11
	2053	C8	R18	Α	1000	0.733	31.962	4.898	1.00	45.61
	2054	C9	R18	Α	1000	0.124	30.597	4.514	1.00	49.94
	2055	C10	R18	Α	1000	0.912	29.480	4.476	1.00	49.84
50	2056	C11	R18	Α	1000	-1.316	30.583	4.251	1.00	47.61
	2057	C12	R18	Α	1000	-2.102	31.675	4.310	1.00	47.26
	2058	C13	R18	Α	1000	-1.535	33.039	4.664	1.00	44.26
55	2059	C14	R18	Α	1000	-0.056	33.066	4.261	1.00	42.93
	2060	C15	R18	Α	1000	0.387	34.509	4.572	1.00	43.22
ĺ	2061	C16	R18	Α	1000	-0.899	35.299	4.311	1.00	41.50

TABLE 9 (continued)

Τ	HREE-DIMENS		RDINAT		T IN COM	7	occ	В	ATOM
ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	3.900	1.00	43.39
2062	C17	R18	Α	1000	-2.001	34.282		1.00	41.74
2063	C18	R18	Α	1000	-1.725	33.228	6.189	1.00	40.38
2064	C27	R18	Α	1000	-2.034	34.050	2.412		59.41
2065	083	R18	Α	1000	3.375	26.212	4.162	1.00	48.46
2066	097	R18	Α	1000	-3.257	34.797	4.345	1.00	51.58
2067	0	нон	Z	1	17.517	11.963	20.575	1.00	
2068	0	НОН	Z	2	7.977	16.353	14.548	1.00	29.86
2069	0	нон	Z	3	3.112	18.553	3.147	1.00	65.78
2070	0	нон	Z	4	1.314	20.835	2.312	1.00	46.40
2071	0	НОН	Z	5	0.422	24.646	-12.882	1.00	58.80
2072	0	нон	Z	6	-1.370	30.527	-15.016	1.00	41.87
2073	0	НОН	Z	7	-4.737	36.972	-13.426	1.00	75.71
2074	0	НОН	Z	8	4.151	24.024	6.333	1.00	32.89
2074	0	нон	Z	9	-7.536	14.518	23.118	1.00	42.77
 -	0	НОН	Z	10	1.368	26.376	31.674	1.00	49.63
2076	0	НОН	Z	11	1.207	32.439	14.426	1.00	45.58
2077		НОН	Z	12	4.179	32.582	14.418	1.00	31.77
2078		НОН	Z	13	-5.348	34.883	24.137	1.00	62.76
2079		НОН	Z	14	2.739	25.007	-10.984	1.00	53.83
2080		НОН	Z	15	10.790	29.074	3.632	1.00	61.00
2081		нон	Z	16	18.090	34.834	6.262	1.00	66.2
2082		НОН	z	17	28.211	24.615	5.938	1.00	56.6
2083		НОН	$\frac{z}{z}$	18	5.741		22.458	1.00	37.5
2084			$\frac{z}{z}$	_	12.529		16.979	1.00	35.2
2085		HOH	Z		7.674	 	32.487	1.00	46.9
2086		HOH	Z		26.45		17.052	1.00	48.4
2087		HOH	- Z					1.00	40.5
2088		HOH						1.00	44.1
208		НОН					+	1.00	46.5
209		НОН	_ Z					1.00	48.7
209		НОН	_ Z					1.00	58.3
209	2 0	НОН	4	2 26	10.02				

TABLE 10

TABLE TO									
THREE-DIMENSIONAL COORDINATES OF PR IN COMPLEX WITH PG									
7 OCC								В	ATOM
ATOM	ATOM TYPE	RESIDUE	#	X	Y			1	69.36
	NI.	GLN	Α	682	31.180	-1.959	93.866	1.00	69.36
1	N				32,157	-2.958	94.388	1.00	66.54
2	CA	GLN	Α_	682	32.157	-2.930	1 0	ــــــــــــــــــــــــــــــــــــــ	
	L								

		THREE	E-DIMENSION	IAL CC	ORDINA	ATES OF P	R IN COMPL	EX WITH PG	i	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	3	С	GLN	Α	682	33.310	-3.159	93.410	1.00	66.47
	4	0	GLN	Α	682	34.414	-2.653	93.627	1.00	66.82
	5	СВ	GLN	Α	682	31.453	-4.285	94.646	1.00	68.47
10	6	N	LEU	Α	683	33.053	-3.900	92.336	1.00	63.30
	7	CA	LEU	Α	683	34.077	-4.153	91.334	1.00	60.85
	8	С	LEU	Α	683	34.028	-3.134	90.197	1.00	56.94
45	9	0	LEU	Α	683	35.057	-2.832	89.590	1.00	54.60
15	10	СВ	LEU	Α	683	33.941	-5.573	90.767	1.00	61.13
	11	CG	LEU	Α	683	34.171	-6.734	91.743	1.00	66.50
	12	CD1	LEU	Α	683	34.044	-8.065	91.003	1.00	60.00
20	13	CD2	LEU	Α	683	35.555	-6.617	92.370	1.00	59.53
	14	N	ILE	Α	684	32.839	-2.607	89.911	1.00	52.97
	15	CA	ILE	Α	684	32.696	-1.624	88.844	1.00	48.69
25	16	С	ILE	Α	684	33.249	-0.282	89.320	1.00	46.25
23	17.	0	ILE	Α	684	32.771	0.276	90.302	1.00	41.04
	18	СВ	ILE	Α	684	31.219	-1.426	88.437	1.00	52.18
	19	CG1	ILE	Α	684	30.594	-2.764	88.029	1.00	50.50
30	20	CG2	ILE	Α	684	31.137	-0.448	87.269	1.00	48.24
	21	CD1	ILE	Α	684	31.258	-3.423	86.839	1.00	51.57
	22	N	PRO	Α	685	34.270	0.250	88.628	1.00	40.66
35	23	CA	PRO	Α	685	34.874	1.532	89.001	1.00	39.82
00	24	С	PRO	Α	685	33.846	2.665	89.084	1.00	36.13
	25	0	PRO	Α	685	32.885	2.697	88.319	1.00	35.64
	26	СВ	PRO	Α	685	35.913	1.743	87.901	1.00	34.22
40	27	CG	PRO	Α	685	36.328	0.330	87.591	1.00	43.36
	28	CD	PRO	Α	685	34.951	-0.290	87.441	1.00	40.38
	29	N	PRO	Α	686	34.049	3.610	90.013	1.00	35.29
45	30	CA	PRO	Α	686	33.161	4.756	90.234	1.00	35.12
	31	С	PRO	Α	686	32.856	5.569	88.978	1.00	30.01
	32	0	PRO	Α	686	31.698	5.883	88.696	1.00	29.64
	33	СВ	PRO	Α	686	33.923	5.573	91.275	1.00	36.34
50	34	CG	PRO	Α	686	34.626	4.484	92.076	1.00	41.25
	35	CD	PRO	Α	686	35.210	3.700	90.919	1.00	39.57
	36	N	LEU	Α	687	33.901	5.907	88.231	1.00	29.04
55	37	CA	LEU	Α	687	33.729	6.701	87.013	1.00	28.23
	38	С	LEU	Α	687	32.874	5.982	85.970	1.00	26.62
	39	0	LEU	Α	687	32.096	6.607	85.240	1.00	25.82

ATOM ATOM TYPE RESIDUE # A 687 35.086 7.048 86.422 1.00 25 41 CG LEU A 687 35.086 7.048 86.422 1.00 25 41 CG LEU A 687 35.023 7.915 85.165 1.00 34 42 CD1 LEU A 687 34.104 9.118 85.408 1.00 30 44 N ILE A 688 33.015 4.663 85.898 1.00 27 44 N ILE A 688 33.015 4.663 85.898 1.00 27 45 46 C ILE A 688 30.762 3.860 85.377 1.00 26 46 C ILE A 688 30.762 3.860 85.377 1.00 26 47 O ILE A 688 30.762 3.860 85.377 1.00 26 48 CB ILE A 688 32.286 3.990 84.545 1.00 26 48 CB ILE A 688 32.788 2.477 84.815 1.00 26 48 CB ILE A 688 32.788 2.477 84.815 1.00 26 50 CG2 ILE A 688 31.848 1.616 83.978 1.00 26 50 CG2 ILE A 688 31.848 1.616 83.978 1.00 26 51 CD1 ILE A 688 34.884 1.237 84.088 1.00 3 51 CD1 ILE A 688 34.884 1.237 84.088 1.00 3 51 CD1 ILE A 689 30.505 3.704 86.674 1.00 2 51 CD1 ILE A 689 30.505 3.704 86.674 1.00 2 51 CD1 ILE A 689 29.118 3.713 87.138 1.00 2 51 CD1			THREE	-DIMENSION			(continued)		EX WITH PG		
5 40 CB LEU A 687 35.086 7.048 86.422 1.00 25 41 CG LEU A 687 35.023 7.915 85.165 1.00 34 42 CD1 LEU A 687 34.104 9.118 85.408 1.00 30 44 N ILE A 688 33.015 4.663 85.898 1.00 27 45 CA ILE A 688 32.226 3.891 84.951 1.00 22 46 C ILE A 688 30.762 3.860 85.377 1.00 22 48 CB ILE A 688 29.859 3.990 84.545 1.00 22 48 CB ILE A 688 34.173 2.557 84.174 1.00 2 49 CG1 ILE A 688 31.848 1.616		ATOM							1		ATOM
41 CG LEU A 687 35.023 7.915 85.165 1.00 34 42 CD1 LEU A 687 34.104 9.118 85.408 1.00 30 43 CD2 LEU A 687 36.436 8.348 84.790 1.00 30 444 N ILE A 688 33.015 4.663 85.898 1.00 27 45 CA ILE A 688 32.226 3.891 84.951 1.00 23 46 C ILE A 688 30.762 3.860 85.377 1.00 24 47 O ILE A 688 29.859 3.990 84.545 1.00 26 48 CB ILE A 688 32.788 2.477 84.815 1.00 26 49 CG1 ILE A 688 34.173 2.557 84.174 1.00 26 50 CG2 ILE A 688 34.84 1.616 83.978 1.00 2 51 CD1 ILE A 688 34.84 1.237 84.088 1.00 3 52 N ASN A 689 30.505 3.704 86.674 1.00 2 53 CA ASN A 689 29.118 3.713 87.138 1.00 2 54 C ASN A 689 29.118 3.713 87.138 1.00 2 55 CB ASN A 689 29.118 3.713 87.138 1.00 2 56 CB ASN A 689 29.163 1.966 88.645 1.00 3 57 CG ASN A 689 29.163 1.966 88.972 1.00 3 58 OD1 ASN A 689 29.163 1.966 88.972 1.00 3 59 ND2 ASN A 689 29.561 1.593 90.081 1.00 2 60 N LEU A 690 29.313 6.139 86.983 1.00 2 61 CA LEU A 690 29.313 6.139 86.983 1.00 2 63 O LEU A 690 28.445 7.621 85.236 1.00 2 640 CB LEU A 690 29.860 8.528 87.112 1.00 2 651 CG LEU A 690 29.860 8.528 87.112 1.00 2 665 CG LEU A 690 29.860 8.528 87.112 1.00 3					A	687	35.086	7.048	86.422	1.00	25.68
10 42 CD1 LEU A 687 34.104 9.118 85.408 1.00 30 444 N ILE A 688 33.015 4.663 85.898 1.00 27 45 CA ILE A 688 33.015 4.663 85.898 1.00 27 46 C ILE A 688 33.015 4.663 85.898 1.00 27 46 C ILE A 688 32.226 3.891 84.951 1.00 20 47 O ILE A 688 30.762 3.860 85.377 1.00 20 48 CB ILE A 688 29.859 3.990 84.545 1.00 20 49 CG1 ILE A 688 32.788 2.477 84.815 1.00 20 50 CG2 ILE A 688 34.173 2.557 84.174 1.00 20 51 CD1 ILE A 688 34.884 1.237 84.088 1.00 3 52 N ASN A 689 30.505 3.704 86.674 1.00 2 50 CA ASN A 689 29.118 3.713 87.138 1.00 2 50 ASN A 689 29.118 3.713 87.138 1.00 2 50 ASN A 689 29.118 3.713 87.138 1.00 2 60 ASN A 689 29.561 1.593 90.081 1.00 3 60 N LEU A 689 29.561 1.593 90.081 1.00 3 60 N LEU A 690 29.313 6.139 86.933 1.00 2 40 64 CB LEU A 690 29.860 8.528 87.112 1.00 3 40 64 CB LEU A 690 29.860 8.528 87.112 1.00 3 60 CGC LEU A 690 29.860 8.528 87.112 1.00 3 60 CGC LEU A 690 29.860 8.528 87.112 1.00 3 60 CGC LEU A 690 29.860 8.528 87.112 1.00 3 60 CGC LEU A 690 29.860 8.528 87.112 1.00 3 60 CGC LEU A 690 29.860 8.578 8.109 8.895 1.00 30.409 10.836 87.880 1.00 1.00 10.836 10.800 10.800 10.800 10.800 10.800 10.800 10.800	_			LEU	A	687	35.023	7.915	85.165	1.00	34.63
10				LEU	Α	687	34.104	9.118	85.408	1.00	30.55
15					Α	687	36.436	8.348	84.790	1.00	30.65
45 CA ILE A 688 32.226 3.891 84.951 1.00 23 46 C ILE A 688 30.762 3.860 85.377 1.00 24 47. O ILE A 688 29.859 3.990 84.545 1.00 24 48 CB ILE A 688 32.788 2.477 84.815 1.00 24 49 CG1 ILE A 688 34.173 2.557 84.174 1.00 24 50 CG2 ILE A 688 31.848 1.616 83.978 1.00 24 51 CD1 ILE A 688 34.884 1.237 84.088 1.00 3 52 N ASN A 689 30.505 3.704 86.674 1.00 2 53 CA ASN A 689 29.118 3.713 87.138 1.00 2 54 C ASN A 689 29.118 3.713 87.138 1.00 2 55 O ASN A 689 29.153 5.088 86.837 1.00 2 56 CB ASN A 689 29.050 3.436 88.645 1.00 3 57 CG ASN A 689 29.163 1.966 88.972 1.00 3 58 OD1 ASN A 689 29.163 1.966 88.972 1.00 3 59 ND2 ASN A 689 29.561 1.593 90.081 1.00 4 59 ND2 ASN A 689 29.561 1.593 90.081 1.00 4 59 ND2 ASN A 689 29.561 1.593 90.081 1.00 2 60 N LEU A 690 29.313 6.139 86.983 1.00 2 61 CA LEU A 690 28.811 7.491 86.715 1.00 2 63 O LEU A 690 29.860 8.528 87.112 1.00 2 64 CB LEU A 690 29.860 8.528 87.112 1.00 2 65 CG LEU A 690 29.488 10.012 86.976 1.00 3			N	ILE	Α	688	33.015	4.663	85.898	1.00	27.06
46 C ILE A 688 30.762 3.860 85.377 1.00 24 47 O ILE A 688 29.859 3.990 84.545 1.00 26 48 CB ILE A 688 32.788 2.477 84.815 1.00 22 49 CG1 ILE A 688 34.173 2.557 84.174 1.00 22 50 CG2 ILE A 688 31.848 1.616 83.978 1.00 2 51 CD1 ILE A 688 34.884 1.237 84.088 1.00 3 52 N ASN A 689 30.505 3.704 86.674 1.00 2 53 CA ASN A 689 29.118 3.713 87.138 1.00 2 54 C ASN A 689 28.513 5.088 86.837 1.00 2 55 O ASN A 689 29.163			CA	ILE	Α	688	32.226	3.891	84.951	1.00	23.18
15			С	ILE	Α	688	30.762	3.860	85.377	1.00	24.05
48 CB ILE A 688 32.760 2.477 84.00 24 49 CG1 ILE A 688 34.173 2.557 84.174 1.00 24 50 CG2 ILE A 688 31.848 1.616 83.978 1.00 25 51 CD1 ILE A 688 34.884 1.237 84.088 1.00 3 52 N ASN A 689 30.505 3.704 86.674 1.00 2 53 CA ASN A 689 29.118 3.713 87.138 1.00 2 54 C ASN A 689 28.513 5.088 86.837 1.00 2 55 O ASN A 689 27.343 5.195 86.472 1.00 2 56 CB ASN A 689 29.050 3.436 88.645 1.00 3 57 CG ASN A 689 29.163 1.966 88.972 1.00 3 58 OD1 ASN A 689 29.561 1.593 90.081 1.00 4 59 ND2 ASN A 689 29.561 1.593 90.081 1.00 3 59 ND2 ASN A 689 28.778 1.116 88.023 1.00 3 60 N LEU A 690 29.313 6.139 86.983 1.00 2 61 CA LEU A 690 28.811 7.491 86.715 1.00 2 63 O LEU A 690 28.445 7.621 85.236 1.00 2 64 CB LEU A 690 29.860 8.528 87.112 1.00 2 65 CG LEU A 690 29.488 10.012 86.976 1.00 3	47	47 .		ILE	Α	688	29.859	3.990	84.545	1.00	26.77
20	48	48	СВ	ILE	Α	688	32.788	2.477	84.815	1.00	23.51
50 CG2 ILE A 688 31.040 1.010 3 51 CD1 ILE A 688 34.884 1.237 84.088 1.00 3 52 N ASN A 689 30.505 3.704 86.674 1.00 2 53 CA ASN A 689 29.118 3.713 87.138 1.00 2 54 C ASN A 689 28.513 5.088 86.837 1.00 2 55 O ASN A 689 27.343 5.195 86.472 1.00 2 56 CB ASN A 689 29.050 3.436 88.645 1.00 3 57 CG ASN A 689 29.163 1.966 88.972 1.00 3 58 OD1 ASN A 689 29.163 1.966 88.972 1.00 3 59 ND2 ASN A 689 29.561 1.593 90.081 1.00 4 59 ND2 ASN A 689 29.561 1.593 90.081 1.00 3 60 N LEU A 690 29.313 6.139 86.983 1.00 2 61 CA LEU A 690 28.811 7.491 86.715 1.00 2 63 O LEU A 690 28.445 7.621 85.236 1.00 2 64 CB LEU A 690 29.860 8.528 87.112 1.00 2 65 CG LEU A 690 29.488 10.012 86.976 1.00 3	49	49	CG1	ILE	Α	688	34.173	2.557	84.174	1.00	26.92
51 CD1 ILE A 688 34.884 1.237 84.088 1.00 3 52 N ASN A 689 30.505 3.704 86.674 1.00 2 53 CA ASN A 689 29.118 3.713 87.138 1.00 2 54 C ASN A 689 28.513 5.088 86.837 1.00 2 55 O ASN A 689 27.343 5.195 86.472 1.00 2 56 CB ASN A 689 29.050 3.436 88.645 1.00 3 57 CG ASN A 689 29.163 1.966 88.972 1.00 3 58 OD1 ASN A 689 29.163 1.966 88.972 1.00 3 58 OD1 ASN A 689 29.561 1.593 90.081 1.00 4 59 ND2 ASN A 689 28.778 1.116 88.023 1.00 3 60 N LEU A 690 29.313 6.139 86.983 1.00 2 61 CA LEU A 690 28.811 7.491 86.715 1.00 2 62 C LEU A 690 28.445 7.621 85.236 1.00 2 63 O LEU A 690 27.384 8.139 84.895 1.00 2 64 CB LEU A 690 29.488 10.012 86.976 1.00 2 65 CG LEU A 690 29.488 10.012 86.976 1.00 3	50	50	CG2	ILE	Α	688	31.848	1.616	83.978	1.00	28.19
52 N ASN A 689 30.303 3.704 55.57 1.00 2 53 CA ASN A 689 29.118 3.713 87.138 1.00 2 54 C ASN A 689 28.513 5.088 86.837 1.00 2 55 O ASN A 689 27.343 5.195 86.472 1.00 2 56 CB ASN A 689 29.050 3.436 88.645 1.00 3 57 CG ASN A 689 29.163 1.966 88.972 1.00 3 58 OD1 ASN A 689 29.561 1.593 90.081 1.00 4 59 ND2 ASN A 689 28.778 1.116 88.023 1.00 3 60 N LEU A 690 29.313 6.139 86.983 1.00 2 61 CA LEU A 690 29.313 6.139 86.983 1.00 2 62 C LEU A 690 28.811 7.491 86.715 1.00 2 63 O LEU A 690 27.384 8.139 84.895 1.00 2 64 CB LEU A 690 29.860 8.528 87.112 1.00 2 65 CG LEU A 690 29.488 10.012 86.976 1.00 3	51	51	CD1	ILE	Α	688	34.884	1.237	84.088	1.00	31.87
53	52	52	N	ASN	Α	689	30.505	3.704	86.674	1.00	25.92
54	53	53	CA	ASN	Α	689	29.118	3.713	87.138	1.00	27.71
55	54	54	С	ASN	Α	689	28.513	5.088	86.837	1.00	22.00
56 CB ASN A 689 29.163 1.966 88.972 1.00 3 57 CG ASN A 689 29.163 1.966 88.972 1.00 3 58 OD1 ASN A 689 29.561 1.593 90.081 1.00 4 59 ND2 ASN A 689 28.778 1.116 88.023 1.00 3 60 N LEU A 690 29.313 6.139 86.983 1.00 2 61 CA LEU A 690 28.811 7.491 86.715 1.00 2 62 C LEU A 690 28.445 7.621 85.236 1.00 2 63 O LEU A 690 27.384 8.139 84.895 1.00 2 64 CB LEU A 690 29.860 8.528 87.112 1.00 2 65 CG LEU A 690 29.488 10.012 86.976 1.00 3	55	55	0	ASN	Α	689	27.343	5.195	86.472	1.00	26.26
57 CG ASN A 689 29.561 1.593 90.081 1.00 4 58 OD1 ASN A 689 29.561 1.593 90.081 1.00 4 59 ND2 ASN A 689 28.778 1.116 88.023 1.00 3 60 N LEU A 690 29.313 6.139 86.983 1.00 2 61 CA LEU A 690 28.811 7.491 86.715 1.00 2 62 C LEU A 690 28.445 7.621 85.236 1.00 2 63 O LEU A 690 27.384 8.139 84.895 1.00 2 64 CB LEU A 690 29.860 8.528 87.112 1.00 2 65 CG LEU A 690 29.488 10.012 86.976 1.00 3	56	56	СВ	ASN	Α	689	29.050	3.436	88.645	1.00	31.49
58 OD1 ASN A 689 29.561 1.593 90.081 1.00 4 59 ND2 ASN A 689 28.778 1.116 88.023 1.00 3 60 N LEU A 690 29.313 6.139 86.983 1.00 2 61 CA LEU A 690 28.811 7.491 86.715 1.00 2 62 C LEU A 690 28.445 7.621 85.236 1.00 2 63 O LEU A 690 27.384 8.139 84.895 1.00 2 64 CB LEU A 690 29.860 8.528 87.112 1.00 2 65 CG LEU A 690 29.488 10.012 86.976 1.00 3	57	57	CG	ASN	Α	689	29.163	1.966	88.972	1.00	38.87
59 ND2 ASN A 689 25.776 1.116 65.55 1.00 2 60 N LEU A 690 29.313 6.139 86.983 1.00 2 61 CA LEU A 690 28.811 7.491 86.715 1.00 2 62 C LEU A 690 28.445 7.621 85.236 1.00 2 63 O LEU A 690 27.384 8.139 84.895 1.00 2 64 CB LEU A 690 29.860 8.528 87.112 1.00 2 65 CG LEU A 690 29.488 10.012 86.976 1.00 3	58	58	OD1	ASN	Α	689	29.561	1.593	90.081	1.00	46.19
60 N LEU A 690 28.811 7.491 86.715 1.00 2 61 CA LEU A 690 28.445 7.621 85.236 1.00 2 63 O LEU A 690 27.384 8.139 84.895 1.00 2 64 CB LEU A 690 29.860 8.528 87.112 1.00 2 65 CG LEU A 690 29.488 10.012 86.976 1.00 3	59	59	ND2	ASN	Α	689	28.778	1.116	88.023	1.00	36.32
61 CA LEU A 690 25.811 7.431 66.76 1.00 2 62 C LEU A 690 28.445 7.621 85.236 1.00 2 63 O LEU A 690 27.384 8.139 84.895 1.00 2 64 CB LEU A 690 29.860 8.528 87.112 1.00 2 65 CG LEU A 690 29.488 10.012 86.976 1.00 3	60	60	N	LEU	Α	690	29.313	6.139	86.983	1.00	26.88
62 C LEU A 690 20.445 7.051 6.00 2 63 O LEU A 690 27.384 8.139 84.895 1.00 2 64 CB LEU A 690 29.860 8.528 87.112 1.00 2 65 CG LEU A 690 29.488 10.012 86.976 1.00 3	61	61	CA	LEU	Α	690	28.811	7.491	86.715	1.00	25.43
63 O LEU A 690 27.304 0.105 0.105 2.100 2.	62	62	С	LEU	А	690	28.445	7.621	85.236	1.00	27.05
64 CB LEU A 690 29.488 10.012 86.976 1.00 3	63	63	0	LEU	Α	690	27.384	8.139	84.895	1.00	26.07
65 CG LEU A 690 25.400 10.012 00.01	64	64	СВ	LEU	Α	690	29.860	8.528	87.112	1.00	26.35
	6	65	CG	LEU	Α	690	29.488	10.012	86.976	1.00	35.60
00 95.	6	66	CD1	LEU	А	690	30.409	10.836	87.880	1.00	36.71
67 CD2 LEU A 690 29.393 10.473 CO.22	6	67	CD2	LEU	Α	690	29.595	10.475	85.522	1.00	30.46
68 N LEU A 691 29.505 7.125 5.155	6	68	N	LEU	Α	691	29.309	7.123	84.360	1.00	25.73
69 CA LEU A 691 29.000 7.777 02.000	6	69	CA	LEU	Α	691	29.038	7.174	82.922	1.00	23.64
70 C LEU A 691 27.766 6.400 82.595 1.00	7	70	С	LEU	Α	691	27.766	6.400	82.595	1.00	27.62
50 71 0 LEO A 691 20.330 0.010 0.110	7	71	0	LEU	Α	691	26.990	6.810	81.738		22.81
72 CB LEU A 691 30.200 0.000 0.000	7	72	СВ	LEU	Α	691	30.209	6.586	82.128	1.00	24.64
73 CG LEO A 691 31.303 7.203	7	73	CG	LEU	Α	691	31.565	7.295	82.220		25.70
74 CD1 LEO A 091 02.010 0.000	7	74	CD1	LEU	Α	691	32.610	6.538	81.381	1.00	21.63
75 CD2 LEO A 691 31.422 6.765	7	75	CD2	LEU	Α	691	31.422	8.739			20.83
76 N MET A 692 27.562 5.259 83.253 1.00	7	76	N	MET	Α	692	27.562	5.259	83.253	1.00	24.62

		THREE	-DIMENSION	NAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG	i	
	АТОМ	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	77	CA	MET	Α	692	26.351	4.476	83.019	1.00	27.60
	78	С	MET	Α	692	25.156	5.337	83.440	1.00	27.94
	79	0	MET	Α	692	24.145	5.416	82.745	1.00	25.86
10	80	СВ	MET	A	692	26.385	3.195	83.860	1.00	27.45
	81	CG	MET	4	692	25.197	2.289	83.686	1.00	39.52
	82	SD	MET	4	692	25.017	1.642	82.004	1.00	51.06
15	83	CE	MET	Α	692	24.268	3.029	81.134	1.00	52.36
15	84	N	SER	Α	693	25.296	6.010	84.574	1.00	25.24
	85	CA	SER	Α	693	24.216	6.835	85.083	1.00	31.97
	86	С	SER	Α	693	23.878	8.044	84.219	1.00	29.88
20	87	0	SER	Α	693	22.719	8.455	84.157	1.00	28.14
	88	СВ	SER	Α	693	24.531	7.313	86.508	1.00	38.05
	89	OG	SER	Α	693	25.623	8.222	86.526	1.00	43.01
25	90	N	ILE	Α	694	24.865	8.625	83.547	1.00	25.23
25	91	CA	ILE	Α	694	24.553	9.808	82.741	1.00	26.22
	92	С	ILE	Α	694	24.257	9.520	81.279	1.00	23.06
	93	0	ILE	Α	694	24.031	10.442	80.504	1.00	24.41
30	94	СВ	ILE	Α	694	25.669	10.875	82.813	1.00	22.83
	95	CG1	ILE	Α	694	26.984	10.307	82.265	1.00	22.20
	96	CG2	ILE	Α	694	25.849	11.338	84.270	1.00	28.20
35	97	CD1	ILE	Α	694	28.060	11.373	82.014	1.00	22.62
	98	N	GLU	Α	695	24.257	8.242	80.899	1.00	26.89
	99	CA	GLU	Α	695	23.969	7.876	79.517	1.00	21.93
	100	С	GLU	Α	695	22.511	8.296	79.289	1.00	28.96
40	101	0	GLU	Α	695	21.632	7.992	80.087	1.00	29.21
	102	СВ	GLU	Α	695	24.150	6.362	79.338	1.00	34.17
	103	CG	GLU	Α	695	24.063	5.848	77.911	1.00	34.86
45	104	CD	GLU	Α	695	25.240	6.232	77.021	1.00	45.46
	105	OE1	GLU	Α	695	26.126	7.019	77.436	1.00	31.19
	106	OE2	GLU	Α	695	25.275	5.730	75.873	1.00	49.30
	107	N	PRO	Α	696	22.242	9.037	78.215	1.00	32.33
50	108	CA	PRO	Α	696	20.865	9.469	77.961	1.00	34.70
	109	С	PRO	Α	696	19.862	8.330	77.764	1.00	30.39
	110	0	PRO	Α	696	20.232	7.235	77.371	1.00	27.63
55	111	СВ	PRO	Α	696	21.020	10.333	76.710	1.00	38.27
	112	CG	PRO	Α	696	22.198	9.652	75.997	1.00	40.07
	113	CD	PRO	Α	696	23.141	9.561	77.173	1.00	34.72

l		THREE	-DIMENSION	IAL CO	ORDINA	TES OF P	R IN COMPLI	EX WITH PG		
	АТОМ	ATOM TYPE	RESIDUE	#	X	Υ	Z	occ	В	ATOM
5	114	N	ASP	Α	697	18.588	8.613	78.037	1.00	38.27
	115	CA	ASP	Α	697	17.516	7.632	77.863	1.00	35.46
	116	С	ASP	Α	697	17.341	7.513	76.340	1.00	35.96
10	117	0	ASP	Α	697	17.600	8.468	75.620	1.00	30.43
	118	СВ	ASP	Α	697	16.238	8.147	78.523	1.00	44.25
	119	CG	ASP	Α	697	15.176	7.069	78.683	1.00	53.62
	120	OD1	ASP	Α	697	15.420	5.901	78.302	1.00	57.04
15	121	OD2	ASP	Α	697	14.085	7.398	79.203	1.00	61.97
	122	N	VAL	Α	698	16.909	6.359	75.841	1.00	32.80
	123	CA	VAL	Α	698	16.766	6.195	74.393	1.00	34.66
20	124	С	VAL	Α	698	15.941	7.312	73.736	1.00	28.44
	125	0	VAL	Α	698	14.937	7.775	74.266	1.00	30.11
	126	СВ	VAL	Α	698	16.153	4.813	74.026	1.00	41.68
	127	CG1	VAL	Α	698	14.649	4.830	74.237	1.00	38.06
25	128	CG2	VAL	Α	698	16.517	4.451	72.586	1.00	45.80
	129	N	ILE	Α	699	16.401	7.751	72.575	1.00	30.17
	130	CA	ILE	Α	699	15.749	8.817	71.837	1.00	26.23
30	131	С	ILE	Α	699	14.912	8.250	70.696	1.00	28.40
	132	0	ILE	Α	699	15.381	7.393	69.954	1.00	22.17
	133	СВ	ILE	Α	699	16.809	9.774	71.240	1.00	28.58
	134	CG1	ILE	Α	699	17.715	10.336	72.348	1.00	29.46
35	135	CG2	ILE	Α	699	16.135	10.897	70.496	1.00	24.35
	136	CD1	ILE	Α	699	16.979	11.118	73.395	1.00	37.93
	137	N	TYR	Α	700	13.678	8.730	70.566	1.00	23.87
40	138	CA	TYR	Α	700	12.788	8.305	69.488	1.00	27.94
	139	С	TYR	Α	700	12.944	9.243	68.304	1.00	28.04
	140	0	TYR	Α	700	13.238	10.427	68.474	1.00	24.24
45	141	СВ	TYR	A	700	11.342	8.316	69.963	1.00	27.40
45	142	CG	TYR	A	700	11.049	7.190	70.923	1.00	34.60
	143	CD1	TYR	A	700	11.300	7.331	72.284	1.00	37.81
	144	CD2	TYR	A	700	10.584	5.960	70.462	1.00	38.29
50	145	CE1	TYR	A	700	11.096	6.276	73.165	1.00	47.26
	146	CE2	TYR	A	700	10.374	4.893	71.337	1.00	39.38
	147	CZ	TYR	Α	700	10.634	5.062	72.687	1.00	41.71
<i>55</i>	148	ОН	TYR	Α	700	10.434	4.024	73.569	1.00	52.51
55	149	N	ALA	Α	701	12.755	8.724	67.096	1.00	23.60
	150	CA	ALA	Α	701	12.882	9.578	65.929	1.00	26.37

TABLE 10 (continued)

		THREE	-DIMENSION	NAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG		
	ATOM ·	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	151	С	ALA	Α	701	11.576	10.323	65.649	1.00	29.47
	152	0	ALA	Α	701	11.579	11.354	64.970	1.00	28.14
	153	СВ	ALA	Α	701	13.272	8.762	64.709	1.00	27.79
10	154	N	GLY	Α	702	10.474	9.811	66.187	1.00	29.99
	155	CA	GLY	Α	702	9.179	10.419	65.925	1.00	32.21
	156	C	GLY	Α	702	8.818	10.120	64.473	1.00	39.13
45	157	0	GLY	Α	702	8.145	10.902	63.803	1.00	40.76
15	158	N	HIS	Α	703	9.278	8.970	63.983	1.00	38.38
	159	CA	HIS	Α	703	9.042	8.558	62.602	1.00	46.41
	160	С	HIS	Α	703	7.638	7.980	62.347	1.00	47.68
20	161	0	HIS	Α	703	7.091	7.256	63.177	1.00	49.96
	162	СВ	HIS	Α	703	10.129	7.559	62.194	1.00	42.73
	163	CG	HIS	Α	703	9.978	7.034	60.803	1.00	48.58
25	164	ND1	HIS	Α	703	9.082	6.039	60.474	1.00	52.11
25	165	CD2	HIS	Α	703	10.589	7.388	59.649	1.00	46.18
	166	CE1	HIS	Α	703	9.151	5.800	59.177	1.00	50.15
	167	NE2	HIS	Α	703	10.057	6.606	58.653	1.00	50.30
30	168	N	ASP	Α	704	7.079	8.306	61.181	1.00	51.90
	169	CA	ASP	Α	704	5.742	7.869	60.777	1.00	52.61
	170	С	ASP	Α	704	5.506	6.363	60.863	1.00	54.82
35	171	0	ASP	Α	704	4.746	5.902	61.715	1.00	57.82
	172	СВ	ASP	Α	704	5.453	8.356	59.359	1.00	52.84
	173	N	ASN	Α	705	6.147	5.616	59.965	1.00	55.70
	174	CA	ASN	Α	705	6.031	4.161	59.889	1.00	56.60
40	175	С	ASN	Α	705	4.799	3.742	59.081	1.00	60.14
	176	0	ASN	Α	705	4.906	2.984	58.109	1.00	61.18
	177	СВ	ASN	Α	705	5.979	3.551	61.295	1.00	57.02
45	178	N	THR	Α	706	3.633	4.239	59.479	1.00	59.68
	179	CA	THR	Α	706	2.384	3.911	58.794	1.00	60.50
	180	С	THR	Α	706	2.420	4.213	57.289	1.00	61.78
	181	0	THR	Α	706	1.670	3.614	56.513	1.00	61.98
50	182	СВ	THR	Α	706	1.226	4.662	59.451	1.00	57.03
	183	N	LYS	Α	707	3.286	5.135	56.874	1.00	62.40
	184	CA	LYS	Α	707	3.386	5.488	55.459	1.00	64.42
55	185	С	LYS	Α	707	4.616	4.854	54.812	1.00	66.61
[186	0	LYS	Α	707	5.571	4.477	55.502	1.00	64.83
	187	СВ	LYS	Α	707	3.439	7.004	55.302	1.00	60.35

TABLE 10 (continued)

			-DIMENSION	AL COC	ORDINAT	FS OF PR	IN COMPLE	X WITH PG		
				#	X	Y	Z	осс	В	ATOM
-	ATOM	ATOM TYPE	RESIDUE	- "	708	4.595	4.705	53.475	1.00	67.95
5	188	N	PRO	$\frac{1}{A}$	708	5.704	4.119	52.713	1.00	69.09
	189	CA	PRO	+	708	6.924	5.047	52.748	1.00	68.98
	190	С	PRO	A	708	6.891	6.153	52.205	1.00	70.54
10	191	0	PRO	A	708	5.111	3.987	51.304	1.00	71.22
	192	СВ	PRO	A	708	3.600	3.904	51.570	1.00	69.09
	193	CG	PRO	A	708	3.493	5.039	52.559	1.00	68.58
45	194	CD	PRO	A	709	7.997	4.585	53.380	1.00	68.95
15	195	N	ASP	A		9.220	5.371	53.510	1.00	68.41
	196	CA	ASP	A .	709	9.961	5.612	52.197	1.00	65.11
	197	С	ASP	A	709	<u> </u>	4.666	51.556	1.00	67.29
20	198	0	ASP	A .	709	10.416	4.684	54.482	1.00	72.12
	199	СВ	ASP	A	709		4.452	55.861	1.00	74.27
	200	CG	ASP	A	709	9.584 8.401	4.798	56.074	1.00	77.63
	201	OD1	ASP	A	709	 	3.918	56.733	1.00	75.63
25	202	OD2	ASP	A	709	10.302	6.876	51.799	1.00	61.36
	203	N	THR	_ A	710	10.087	7.201	50.585	1.00	54.04
	204	CA	THR	_ A	710	10.827	7.499	51.026	1.00	53.38
30	205	С	THR	A	710	12.256	7.499	52.214	1.00	44.49
	206	0	THR	A	710	12.519		49.852	1.00	56.37
	207	СВ	THR	A	710	10.247	9,603	50.674	1.00	58.14
	208	OG1	THR	_ A	710	10.381	 	49.537	1.00	59.13
35	209	CG2	THR	Α	710	8.782		50.079	1.00	47.04
	210	N	SER	_ A	711	13.182		50.412	1.00	48.03
	211	CA	SER	A	711	14.566	+	51.102	1.00	44.05
40	212	С	SER	A	711	14.702	+	52.129	1.00	41.23
	213	0	SER	A	711	15.368		49.146	1.00	50.15
	214	СВ	SER	A	711	15.415			1.00	63.32
	215	OG	SER	A	711	15.267	 	48.508 50.550	1.00	+
45	216	N	SER	A					1.00	
	217	CA	SER	A				51.136	1.00	
	218	С	SER	A	712			52.472	1.00	
50	219	0	SER	A				53.357	1.00	
	220	СВ	SER	A			+	50.159	1.00	
	221	OG	SER	Α	712			49.920	1.00	
	222	2 N	SER	A	713			52.630	1.00	
55	223	3 CA	SER		713			53.890	1.00	
	22	4 C	SER	1	713	3 12.38	8 10.291	54.960	1.00	-1

		THREE	E-DIMENSION			(continue		EX WITH PG	 I	
	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	осс	В	ATOM
5	225	0	SER	A	713	12.459	10.737	56.102	1.00	28.24
	226	СВ	SER	Α	713	10.163	10.308	53.782	1.00	35.58
	227	OG	SER	Α	713	10.266	8.900	53.711 1	1.00	43.95
10	228	N	LEU	Α	714	13.040	9.207	54.574	1.00	27.90
	229	CA	LEU	Α	714	13.897	8.469	55.490	1.00	29.29
	230	С	LEU	Α	714	15.031	9.364	56.008	1.00	28.57
	231	0	LEU	Α	714	15.253	9.451	57.215	1.00	25.88
15	232	СВ	LEU	Α	714	14.488	7.255	54.781	1.00	27.95
	233	CG	LEU	Α	714	15.515	6.429	55.552	1.00	32.79
	234	CD1	LEU	Α	714	15.004	6.197	56.951	1.00	31.65
20	235	CD2	LEU	Α	714	15.783	5.110	54.823	1.00	36.96
	236	N	LEU	Α	715	15.735	10.025	55.094	1.00	25.56
	237	CA	LEU	Α	715	16.832	10.915	55.482	1.00	24.24
05	238	С	LEU	Α	715	16.340	12.042	56.345	1.00	22.49
25	239	0	LEU	Α	715	16.992	12.398	57.317	1.00	21.35
	240	СВ	LEU	Α	715	17.541	11.463	54.256	1.00	24.95
	241	CG	LEU	Α	715	18.210	10.360	53.431	1.00	27.77
30	242	CD1	LEU	Α	715	18.781	10.946	52.146	1.00	27.06
	243	CD2	LEU	Α	715	19.300	9.695	54.259	1.00	32.37
	244	N	THR	Α	716	15.179	12.598	56.004	1.00	21.24
35	245	CA	THR	Α	716	14.586	13.664	56.795	1.00	24.54
55	246	С	THR	Α	716	14.306	13.159	58.207	1.00	24.54
	247	0	THR	Α	716	14.552	13.864	59.181	1.00	21.07
	248	СВ	THR	Α	716	13.265	14.171	56.164	1.00	24.90
40	249	OG1	THR	Α	716	13.561	14.873	54.948	1.00	26.56
	250	CG2	THR	Α	716	12.520	15.088	57.125	1.00	23.35
	251	N	SER	Α	717	13.776	11.945	58.322	1.00	19.11
45	252	CA	SER	Α	717	13.508	11.381	59.635	1.00	21.51
	253	С	SER	Α	717	14.815	11.112	60.389	1.00	19.84
	254	0	SER	Α	717	14.860	11.270	61.619	1.00	21.66
	255	СВ	SER	Α	717	12.706	10.077	59.527	1.00	24.02
50	256	OG	SER	Α	717	11.397	10.321	59.029	1.00	36.60
	257	N	LEU	Α	718	15.866	10.687	59.683	1.00	18.47
	258	CA	LEU	Α	718	17.133	10.441	60.368	1.00	20.90
55	259	С	LEU	Α	718	17.738	11.766	60.828	1.00	20.84
	260	0	LEU	Α	718	18.425	11.825	61.861	1.00	20.00
	261	СВ	LEU	Α	718	18.113	9.706	59.464	1.00	17.55

TABLE 10 (continued)

			-DIMENSION	TAE	ORDINA	(continued)	IN COMPLE	X WITH PG		
					_	Y T	z	осс	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	#	X 710	17.770	8.242	59.191	1.00	19.20
5	262	CG	LEU	A	718	18.704	7.721	58.127	1.00	20.15
	263	CD1	LEU	A	718	17.902	7.418	60.467	1.00	19.08
	264	CD2	LEU	A	718	17.498	12.832	60.070	1.00	17.81
10	265	N	ASN	A	719	18.018	14.148	60.498	1.00	19.99
	266	CA	ASN	A	719	17.274	14.651	61.732	1.00	18.99
	267	С	ASN	A .	719	17.862	15.300	62.591	1.00	20.08
	268	0	ASN	A .	719	17.802	15.208	59.392	1.00	22.67
15	269	СВ	ASN	A .	719	 	15.026	58.296	1.00	27.38
	270	CG	ASN	A	719	18.942	14.490	58.523	1.00	24.69
	271	OD1	ASN	A	719	20.042	15.530	57.106	1.00	23.33
20	272	ND2	ASN	A	719	18.622	14.380	61.808	1.00	18.44
	273	N	GLN	A	720	15.975	14.785	62.966	1.00	21.61
	274	CA	GLN	A	720	15.165	14.023	64.186	1.00	23.93
	275	С	GLN	A	720	15.693	14.582	65.273	1.00	18.25
25	276	0	GLN	A	720	15.832	14.456	62.730	1.00	22.65
	277	СВ	GLN	_ A	720	13.683	14.620	63.963	1.00	26.41
	278	CG	GLN	_ A	720	12.817	16.019	64.530	1.00	26.67
30	279	CD	GLN	A	720	12.882	16.019	65.741	1.00	31.96
	280	OE1	GLN	_ A	720	12.760	17.013	63.658	1.00	28.01
	281	NE2	GLN	A	720	13.052		63.995	1.00	19.58
	282	N	LEU	A	721	16.006	12.741	65.084	1.00	17.13
35	283	CA	LEU	A	721	16.568	11.942	65.476	1.00	16.29
	284	С	LEU	A		17.924	12.000	66.662	1.00	
	285	0	LEU	_ A	_+	18.228		64.638	1.00	
40	286	СВ	LEU	A				65.673	1.00	
	287	CG	LEU	A				66.942	1.00	
	288	CD1	LEU	_ A				65.037	1.00	
	289	CD2	LEU	A	721			64.476	1.00	
45	290	N	GLY	A	722				1.00	
	291	CA	GLY	Α	-			64.710	1.00	
	292	С	GLY	A	-+			65.516	1.00	
50	293	0	GLY	1	722			66.402	1.0	
	294	l N	GLU	/	723			65.210	1.0	
	295	5 CA	GLU		72			65.951	1.0	
	296	3 C	GLU		A 72			67.410		
55	29	7 0	GLU		A 72	3 18.89		68.328		
	29	в СВ	GLU		A 72	3 17.52	1 17.623	65.372	1.0	30.23

TABLE 10 (continued)

		THREE	-DIMENSION	IAL CC	ORDINA	ATES OF P	R IN COMPL	EX WITH PG	i	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	299	CG	GLU	Α	723	17.240	18.998	66.018	1.00	27.93
	300	CD	GLU	Α	723	18.083	20.112	65.417	1.00	37.81
	301	OE1	GLU	A	723	18.978	19.780	64.624	1.00	29.92
10	302	OE2	GLU	A	723	17.847	21.311	65.726	1.00	32.81
	303	N	ARG	A	724	17.597	15.496	67.640	1.00	17.75
	304	CA	ARG	Α	724	17.258	15.112	69.007	1.00	19.86
45	305	С	ARG	A	724	18.445	14.490	69.735	1.00	18.81
15	306	0	ARG	Α	724	18.565	14.633	70.958	1.00	20.56
	307	СВ	ARG	Α	724	16.085	14.135	69.015	1.00	18.63
	308	CG	ARG	Α	724	14.820	14.733	68.421	1.00	24.16
20	309	CD	ARG	A	724	13.713	13.709	68.362	1.00	28.88
	310	NE	ARG	Α	724	12.531	14.280	67.730	1.00	27.71
	311	CZ	ARG	Α	724	11.330	13.726	67.739	1.00	32.19
25	312	NH1	ARG	Α	724	11.131	12.566	68.352	1.00	28.19
25	313	NH2	ARG	Α	724	10.315	14.360	67.162	1.00	35.89
	314	N	GLN	Α	725	19.296	13.770	69.009	1.00	19.77
	315	CA	GLN	Α	725	20.474	13.188	69.634	1.00	19.30
30	316	С	GLN	Α	725	21.545	14.239	69.906	1.00	21.49
	317	0	GLN	Α	725	22.309	14.113	70.855	1.00	21.43
	318	СВ	GLN	Α	725	21.055	12.063	68.771	1.00	19.47
35	319	CG	GLN	Α	725	20.135	10.843	68.774	1.00	22.41
50	320	CD	GLN	Α	725	20.746	9.633	68.092	1.00	30.53
	321	OE1	GLN	Α	725	20.104	8.578	67.970	1.00	32.93
	322	NE2	GLN	Α	725	21.987	9.770	67.647	1.00	27.09
40	323	N	LEU	Α	726	21.592	15.284	69.085	1.00	21.82
	324	CA	LEU	Α	726	22.573	16.347	69.288	1.00	22.79
	325	С	LEU	Α	726	22.284	17.027	70.624	1.00	21.40
45	326	0	LEU	Α	726	23.207	17.293	71.406	1.00	23.41
	327	СВ	LEU	A	726	22.526	17.367	68.135	1.00	19.53
	328	CG	LEU	Α	726	23.533	18.531	68.138	1.00	24.90
	329	CD1	LEU	Α	726	24.948	18.005	68.300	1.00	22.88
50	330	CD2	LEU	Α	726	23.421	19.325	66.812	1.00	20.28
	331	N	LEU	Α	727	21.007	17.301	70.890	1.00	18.00
	332	CA	LEU	Α	727	20.623	17.906	72.156	1.00	19.91
55	333	С	LEU	Α	727	21.078	16.978	73.281	1.00	24.23
	334	0	LEU	Α	727	21.678	17.402	74.274	1.00	19.07
	335	СВ	LEU	Α	727	19.105	18.065	72.247	1.00	21.64

		THREE	-DIMENSION	IAL CO	ORDINA	TES OF P	R IN COMPLI	EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	336	CG	LEU	Α	727	18.591	18.563	73.594	1.00	21.40
	337	CD1	LEU	Α	727	19.256	19.906	73.912	1.00	26.36
	338	CD2	LEU	Α	727	17.082	18.699	73.546	1.00	28.00
10	339	N	SER	Α	728	20.783	15.695	73.106	1.00	21.94
,,	340	CA	SER	Α	728	21.131	14.690	74.097	1.00	21.38
	341	С	SER	Α	728	22.637	14.682	74.355	1.00	20.10
	342	0	SER	Α	728	23.066	14.611	75.512	1.00	22.32
15	343	СВ	SER	Α	728	20.645	13.310	73.630	1.00	24.08
	344	OG	SER	Α	728	20.719	12.380	74.689	1.00	30.43
	345	N	VAL	Α	729	23.433	14.741	73.297	1.00	18.72
20	346	CA	VAL	Α	729	24.891	14.781	73.415	1.00	20.27
	347	С	VAL	Α	729	25.388	15.988	74.203	1.00	18.31
	348	0	VAL	Α	729	26.274	15.860	75.049	1.00	19.16
	349	СВ	VAL	Α	729	25.574	14.796	72.034	1.00	17.15
25	350	CG1	VAL	Α	729	27.060	15.147	72.164	1.00	20.31
	351	CG2	VAL	Α	729	25.453	13.395	71.407	1.00	21.83
	352	N	VAL	Α	730	24.830	17.159	73.937	1.00	17.43
30	353	CA	VAL	Α	730	25.282	18.333	74.660	1.00	21.44
	354	С	VAL	Α	730	24.888	18.225	76.132	1.00	19.86
	355	0	VAL	Α	730	25.678	18.584	76.993	1.00	21.47
	356	СВ	VAL	Α	730	24.725	19.630	74.038	1.00	20.22
35	357	CG1	VAL	Α	730	25.210	20.849	74.834	1.00	21.24
	358	CG2	VAL	Α	730	25.178	19.734	72.596	1.00	19.32
	359	N	LYS	Α	731	23.686	17.727	76.427	1.00	17.73
40	360	CA	LYS	Α	731	23.275	17.552	77.817	1.00	22.58
	361	С	LYS	A	731	24.186	16.546	78.517	1.00	23.23
	362	0	LYS	Α	731	24.613	16.757	79.659	1.00	20.64
45	363	СВ	LYS	A	731	21.808	17.121	77.911	1.00	23.07
43	364	CG	LYS	A	731	20.850	18.296	77.646	1.00	25.92
	365	CD	LYS	Α	731	19.388	18.009	78.016	1.00	37.08
	366	CE	LYS	Α	731	18.717	17.034	77.063	1.00	48.50
50	367	NZ	LYS	Α	731	17.247	16.901	77.346	1.00	49.18
	368	N	TRP	A	732	24.486	15.452	77.828	1.00	18.73
	369	CA	TRP	Α	732	25.383	14.437	78.364	1.00	21.37
55	370	С	TRP	Α	732	26.743	15.038	78.703	1.00	22.20
	371	0	TRP	A	732	27.293	14.772	79.770	1.00	23.93
	372	СВ	TRP	Α	732	25.552	13.321	77.334	1.00	21.47

TABLE 10 (continued)

		THREE	-DIMENSION	IAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	АТОМ
5	373	CG	TRP	Α	732	26.674	12.347	77.582	1.00	17.78
	374	CD1	TRP	Α	732	26.728	11.348	78.528	1.00	20.71
	375	CD2	TRP	Α	732	27.861	12.225	76.806	1.00	17.23
10	376	NE1	TRP	Α	732	27.879	10.613	78.370	1.00	19.88
	377	CE2	TRP	Α	732	28.593	11.130	77.318	1.00	19.41
	378	CE3	TRP	Α	732	28.383	12.938	75.713	1.00	19.83
	379	CZ2	TRP	A	732	29.824	10.726	76.771	1.00	18.15
15	380	CZ3	TRP	Α	732	29.612	12.533	75.165	1.00	20.23
	381	CH2	TRP	Α	732	30.314	11.435	75.701	1.00	22.27
	382	N	SER	Α	733	27.274	15.872	77.811	1.00	20.68
20	383	CA	SER	Α	733	28.594	16.460	78.025	1.00	22.57
	384	С	SER	4	733	28.650	17.371	79.250	1.00	20.83
	385	0	SER	Α	733	29.701	17.523	79.843	1.00	22.59
25	386	СВ	SER	A	733	29.052	17.247	76.783	1.00	22.82
25	387	OG	SER	A	733	28.287	18.431	76.611	1.00	27.11
	388	N	LYS	4	734	27.522	17.976	79.619	1.00	20.76
	389	CA	LYS	Α	734	27.495	18.878	80.769	1.00	25.82
30	390	С	LYS	Α	734	27.610	18.084	82.069	1.00	26.99
	391	0	LYS	Α	734	27.952	18.643	83.117	1.00	24.98
	392	СВ	LYS	Α	734	26.211	19.724	80.761	1.00	27.35
35	393	CG	LYS	Α	734	26.007	20.439	79.443	1.00	34.69
55	394	ÇD	LYS	Α	734	25.400	21.833	79.600	1.00	44.84
	395	CE	LYS	Α	734	24.047	21.812	80.278	1.00	49.64
	396	NZ	LYS	Α	734	23.525	23.208	80.476	1.00	49.55
40	397	N	SER	Α	735	27.325	16.786	82.003	1.00	23.17
	398	CA	SER	Α	735	27.451	15.922	83.180	1.00	23.40
	399	С	SER	Α	735	28.698	15.045	83.135	1.00	24.42
45	400	0	SER	Α	735	29.010	14.345	84.110	1.00	21.97
	401	СВ	SER	Α	735	26.221	15.016	83.324	1.00	24.11
	402	OG	SER	_A	735	25.066	15.769	83.629	1.00	29.58
	403	N	LEU	Α	736	29.421	15.085	82.015	1.00	19.77
50	404	CA	LEU	Α	736	30.613	14.246	81.835	1.00	21.02
	405	С	LEU	Α	736	31.774	14.753	82.669	1.00	21.28
	406	0	LEU	Α	736	32.247	15.858	82.451	1.00	22.53
55	407	СВ	LEU	Α	736	31.017	14.233	80.354	1.00	23.10
	408	CG	LEU	Α	736	32.215	13.395	79.912	1.00	22.82
	409	CD1	LEU	Α	736	31.963	11.915	80.168	1.00	22.40

TABLE 10 (continued)

			-DIMENSION	AL COO	DRDINAT	res of PR	IN COMPLE	X WITH PG		
	ļ			# 1	x	Y	Z	occ	В	ATOM
_	ATOM	ATOM TYPE	RESIDUE	-# A	736	32.443	13.639	78.412	1.00	20.94
5	410	CD2	LEU		737	32.285	13.930	83.595	1.00	22.85
	411	N	PRO	- <u>A</u>	737	33.398	14.411	84.424	1.00	24.25
	412	CA	PRO	A	737	34.563	15.028	83.659	1.00	25.32
10	413	С	PRO	A	737	35.114	14.423	82.734	1.00	25.05
	414	0	PRO	A		33.790	13.163	85.219	1.00	24.36
	415	СВ	PRO	A	737 737	32.452	12.470	85.397	1.00	23.83
4.5	416	CG	PRO	A		31.958	12.535	83.947	1.00	20.46
15	417	CD	PRO	A	737	34.911	16.253	84.053	1.00	25.15
	418	N	GLY	A	738	36.016	16.969	83.444	1.00	25.65
	419	CA	GLY	A .	738	35.703	17.825	82.231	1.00	23.09
20	420	С	GLY	A .	738	36.394	18.803	81.956	1.00	25.86
	421	0	GLY	A	738	34.648	17.493	81.504	1.00	22.74
	422	N	PHE	A	739		18.252	80.296	1.00	23.63
	423	CA	PHE	A	739	34.363	19.717	80.536	1.00	22.42
25	424	С	PHE	A	739	34.018	20.591	79.856	1.00	21.78
	425	0	PHE	A	739	34.537	17.598	79.506	1.00	21.38
	426	СВ	PHE	A	739	33.217	18.065	78.077	1.00	20.80
30	427	CG	PHE	A	739	33.129	+	77.165	1.00	22.81
	428	CD1	PHE	A	739	34.130	17.715	77.642	1.00	24.10
	429	CD2	PHE	A	739	32.063	18.851	75.848	1.00	24.39
	430	CE1	PHE	A	739	34.072	18.134	76.313	1.00	19.38
35	431	CE2	PHE	A	739	31.998	10010	75.423	1.00	23.48
	432	CZ	PHE	A	739	33.001		81.508	1.00	22.15
	433	N	ARG	A	740	33.147			1.00	25.70
40	434	CA	ARG	A	740		+	81.780	1.00	24.37
	435	С	ARG	_ A	740			82.232	1.00	24.34
	436	0	ARG	A	740				1.00	23.04
	437	СВ	ARG	A	740			82.851	1.00	24.68
45	438	CG	ARG	A	740			84.166	1.00	25.40
	439	CD	ARG	A	740			85.281	1.00	+
	440	NE	ARG	A	740	31.569		86.545	1.00	
50	441	CZ	ARG	A	740			87.721	1.00	+
	442	NH1	ARG	Α	740	29.97		87.791		
	443	NH2	ARG	A	740	31.53		88.819	1.00	
	444	1 N	ASN	A	74	1 34.95		82.555	1.00	
55	445	5 CA	ASN		74	1 36.10		83.029	1.00	
	440		ASN	1	74	1 37.02	4 22.889	81.918	1.00	20.30

TABLE 10 (continued)

		THREE	-DIMENSION	IAL CC	ORDINA	ATES OF P	R IN COMPL	EX WITH PG	`	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	447	0	ASN	Α	741	37.922	23.694	82.170	1.00	27.16
	448	СВ	ASN	Α	741	36.828	21.571	84.063	1.00	32.06
	449	CG	ASN	Α	741	35.926	21.211	85.230	1.00	33.85
10	450	OD1	ASN	Α	741	36.120	20.201	85.899	1.00	37.94
	451	ND2	ASN	Α	741	34.928	22.054	85.481	1.00	28.27
	452	N	LEU	Α	742	36.806	22.402	80.698	1.00	22.63
	453	CA	LEU	Α	742	37.572	22.859	79.547	1.00	22.51
15	454	C	LEU	Α	742	36.961	24.201	79.206	1.00	19.73
	455	0	LEU	Α	742	35.843	24.497	79.590	1.00	23.16
	456	СВ	LEU	Α	742	37.388	21.936	78.336	1.00	21.95
20	457	CG	LEU	Α	742	37.803	20.486	78.573	1.00	20.73
	458	CD1	LEU	Α	742	37.333	19.611	77.383	1.00	23.47
	459	CD2	LEU	Α	742	39.318	20.415	78.768	1.00	22.85
25	460	N	HIS	Α	743	37.712	25.006	78.483	1.00	21.02
23	461	CA	HIS	Α	743	37.248	26.319	78.056	1.00	25.86
	462	С	HIS	Α	743	35.972	26.079	77.252	1.00	26.17
	463	0	HIS	Α	743	35.873	25.074	76.559	1.00	23.09
30	464	СВ	HIS	Α	743	38.358	26.936	77.204	1.00	28.77
	465	CG	HIS	Α	743	38.130	28.363	76.836	1.00	36.70
	466	ND1	HIS	Α	743	37.179	28.753	75.921	1.00	34.14
35	467	CD2	HIS	Α	743	38.742	29.497	77.251	1.00	38.95
	468	CE1	HIS	Α	743	37.215	30.067	75.785	1.00	39.45
	469	NE2	HIS	Α	743	38.155	30.542	76.582	1.00	39.37
	470	N	ILE	Α	744	34.996	26.980	77.355	1.00	20.73
40	471	CA	· ILE	Α	744	33.743	26.827	76.623	1.00	27.73
	472	С	ILE	Α	744	33.951	26.674	75.118	1.00	27.07
	473	0	ILE	Α	744	33.264	25.875	74.461	1.00	24.14
45	474	СВ	ILE	Α	744	32.790	28.013	76.890	1.00	26.09
	475	CG1	ILE	Α	744	32.515	28.111	78.389	1.00	32.88
	476	CG2	ILE	Α	744	31.453	27.810	76.148	1.00	29.39
[477	CD1	ILE	Α	744	31.940	26.858	78.979	1.00	39.72
50	478	N	ASP	Α	745	34.888	27.432	74.554	1.00	24.97
	479	CA	ASP	Α	745	35.140	27.317	73.126	1.00	27.70
	480	С	ASP	Α	745	35.633	25.917	72.773	1.00	25.79
55	481	0	ASP	Α	745	35.334	25.406	71.696	1.00	26.38
	482	СВ	ASP	Α	745	36.175	28.338	72.639	1.00	33.81
	483	CG	ASP	Α	745	35.692	29.769	72.762	1.00	46.44

TABLE 10 (continued)

		THREE	-DIMENSION	AL CO	ORDINA	TES OF PI	R IN COMPLI	EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	484	OD1	ASP	Α	745	34.462	29.984	72.755	1.00	51.31
	485	OD2	ASP	Α	745	36.548	30.683	72.829	1.00	50.96
	486	N	ASP	Α	746	36.406	25.312	73.667	1.00	23.70
10	487	CA	ASP	Α	746	36.904	23.971	73.418	1.00	22.43
	488	С	ASP	Α	746	35.755	22.975	73.520	1.00	19.90
	489	0	ASP	Α	746	35.672	22.049	72.712	1.00	22.60
	490	СВ	ASP	Α	746	37.992	23.577	74.406	1.00	21.92
15	491	CG	ASP	Α	746	39.172	24.513	74.370	1.00	33.42
	492	OD1	ASP	Α	746	39.421	25.130	73.300	1.00	34.56
	493	OD2	ASP	Α	746	39.862	24.610	75.408	1.00	39.54
20	494	N	GLN	Α	747	34.861	23.176	74.486	1.00	19.31
	495	CA	GLN	Α	747	33.739	22.252	74.657	1.00	17.71
	496	С	GLN	Α	747	32.919	22.281	73.385	1.00	23.99
	497	0	GLN	Α	747	32.563	21.238	72.852	1.00	19.91
25	498	СВ	GLN	Α	747	32.846	22.655	75.826	1.00	19.37
	499	CG	GLN	Α	747	33.563	22.742	77.152	1.00	22.18
	500	CD	GLN	Α	747	32.642	23.127	78.281	1.00	22.76
30	501	OE1	GLN	Α	747	33.052	23.798	79.230	1.00	25.01
	502	NE2	GLN	Α	747	31.397	22.675	78.212	1.00	18.79
	503	N	ILE	Α	748	32.605	23.481	72.908	1.00	21.08
	504	CA	ILE	Α	748	31.835	23.604	71.680	1.00	21.96
35	505	С	ILE	Α	748	32.556	22.969	70.493	1.00	24.64
	506	0	ILE	Α	748	31.942	22.218	69.732	1.00	23.28
	507	СВ	ILE	Α	748	31.527	25.087	71.368	1.00	25.55
40	508	CG1	ILE	Α	748	30.603	25.642	72.445	1.00	22.21
	509	CG2	ILE	Α	748	30.871	25.213	69.993	1.00	25.02
	510	CD1	ILE	Α	748	30.292	27.138	72.308	1.00	26.31
	511	N	THR	Α	749	33.847	23.268	70.332	1.00	19.75
45	512	CA	THR	Α	749	34.645	22.716	69.240	1.00	20.18
	513	С	THR	Α	749	34.678	21.177	69.271	1.00	19.01
	514	0	THR	Α	749	34.541	20.536	68.238	1.00	18.23
50	515	СВ	THR	Α	749	36.104	23.229	69.301	1.00	24.15
	516	OG1	THR	Α	749	36.104	24.656	69.166	1.00	26.23
	517	CG2	THR	Α	749	36.925	22.631	68.177	1.00	23.53
E.F.	518	N	LEU	Α	750	34.864	20.583	70.450	1.00	17.46
55	519	CA	LEU	Α	750	34.899	19.117	70.541	1.00	19.07
	520	С	LEU	A	750	33.570	18.457	70.141	1.00	17.18

:		THREE	-DIMENSION	IAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	521	0	LEU	Α	750	33.569	17.386	69.522	1.00	17.28
	522	СВ	LEU	Α	750	35.293	18.670	71.955	1.00	18.92
	523	CG	LEU	Α	750	36.741	19.094	72.288	1.00	22.74
10	524	CD1	LEU	Α	750	37.054	18.900	73.774	1.00	22.99
	525	CD2	LEU	Α	750	37.674	18.281	71.444	1.00	20.48
	526	N	ILE	Α	751	32.457	19.073	70.524	1.00	16.29
	527	CA	ILE	Α	751	31.136	18.544	70.148	1.00	23.76
15	528	C	ILE	Α	751	30.940	18.695	68.635	1.00	22.00
	529	0	ILE	Α	751	30.462	17.777	67.966	1.00	17.05
	530	СВ	ILE	Α	751	29.991	19.264	70.913	1.00	18.60
20	531	CG1	ILE	Α	751	30.014	18.842	72.388	1.00	22.25
	532	CG2	ILE	Α	751	28.614	18.908	70.322	1.00	22.79
	533	CD1	ILE	Α	751	29.698	17.360	72.594	1.00	33.00
25	534	N	GLN	Α	752	31.311	19.848	68.085	1.00	21.43
25	535	CA	GLN	Α	752	31.144	20.031	66.643	1.00	23.26
	536	C	GLN	Α	752	32.038	19.105	65.824	1.00	22.82
	537	0	GLN	Α	752	31.702	18.771	64.700	1.00	22.26
30	538	СВ	GLN	Α	752	31.357	21.505	66.248	1.00	21.04
	539	CG	GLN	Α	752	30.346	22.408	66.965	1.00	26.41
	540	CD	GLN	Α	752	30.410	23.867	66.541	1.00	34.88
35	541	OE1	GLN	Α	752	31.485	24.427	66.339	1.00	28.80
55	542	NE2	GLN	Α	752	29.245	24.500	66.453	1.00	32.80
	543	N	TYR	Α	753	33.171	18.680	66.381	1.00	21.10
	544	CA	TYR	Α	753	34.060	17.765	65.657	1.00	23.73
40	545	С	TYR	Α	753	33.590	16.333	65.756	1.00	21.41
	546	0	TYR	Α	753	33.692	15.561	64.806	1.00	24.76
	547	СВ	TYR	Α	753	35.471	17.782	66.250	1.00	22.41
45	548	CG	TYR	Α	753	36.339	18.964	65.885	1.00	21.14
	549	CD1	TYR	Α	753	35.855	20.015	65.117	1.00	22.56
	550	CD2	TYR	Α	753	37.666	19.006	66.295	1.00	25.54
	551	CE1	TYR	Α	753	36.683	21.093	64.759	1.00	27.58
50	552	CE2	TYR	Α	753	38.496	20.067	65.947	1.00	23.54
	553	CZ	TYR	Α	753	38.002	21.104	65.181	1.00	22.36
	554	ОН	TYR	Α	753	38.840	22.145	64.843	1.00	29.42
55	555	N	SER	Α	754	33.038	15.988	66.904	1.00	19.69
·	556	CA	SER	Α	754	32.699	14.594	67.147	1.00	21.05
[557	С	SER	Α	754	31.265	14.109	67.119	1.00	20.67

ATOM ATOM TYPE RESIDUE # X Y Z OCC B ATOM			THRE	E-DIMENSIC	NAL C	OORDII	NATES OF	PR IN COMI	PLEX WITH F	PG	
558	_	ATOM			$\overline{}$	_r		T			ATOM
Secondary Seco	5	558	0	SER	Α	754	31.042	12.893	67.259	1.00	
Section		559	СВ	SER	Α	754	33.288	14.196	68.498	1.00	24.21
Second		560	OG	SER	Α	754	32.556	14.827	69.535	1.00	27.35
563 C	10	561	N	TRP	Α	755	30.300	14.998	66.911	1.00	17.55
Section Sect		562	CA	TRP	Α	755	28.912	14.547	66.960	1.00	21.93
Second S		563	С	TRP	Α	755	28.620	13.345	66.055	1.00	18.91
565 CB TRP A 755 27.925 15.684 66.47 1.00 22.52 566 CG TRP A 755 28.003 16.222 65.257 1.00 23.08 567 CD1 TRP A 755 28.859 17.175 64.791 1.00 28.21 568 CD2 TRP A 755 27.217 15.803 64.141 1.00 25.19 570 CE2 TRP A 755 27.651 16.548 63.022 1.00 26.64 571 CE3 TRP A 755 27.689 16.388 61.733 1.00 29.86 571 CE3 TRP A 755 27.089 16.388 61.743 1.00 29.86 573 CZ3 TRP A 755 26.083 15.465 61.608 1.00 30.85 574 CH2 TRP A 756 29.114	15	564	0	TRP	Α	755	27.956	12.409	66.486	1.00	20.07
Section Sect	,,,	5 65	СВ	TRP	Α	755	27.925	15.684	66.647	1.00	22.52
See		566	CG	TRP	Α	755	28.003	16.222	65.257	1.00	23.08
Separate Separate		567	CD1	TRP	Α	755	28.859	17.175	64.791	1.00	28.21
570 CE2 TRP A 755 27.651 16.548 63.022 1.00 26.64 571 CE3 TRP A 755 27.651 16.548 63.022 1.00 26.64 572 CZ2 TRP A 755 26.189 14.869 63.979 1.00 25.75 573 CZ3 TRP A 755 27.089 16.388 61.743 1.00 29.86 574 CH2 TRP A 755 25.630 14.707 62.707 1.00 32.59 575 N MET A 755 26.083 15.465 61.608 1.00 30.85 576 CA MET A 756 29.114 13.357 64.820 1.00 21.38 577 C MET A 756 29.439 10.939 64.415 1.00 23.20 578 O MET A 756 29.439 10.939 64.415 1.00 23.20 579 CB MET A 756 29.432 12.529 62.511 1.00 21.49 580 CG MET A 756 29.432 12.529 62.511 1.00 21.49 581 SD MET A 756 27.367 11.449 60.920 1.00 27.03 582 CE MET A 756 27.367 11.449 60.920 1.00 27.03 584 CA SER A 757 30.675 11.013 64.899 1.00 19.23 584 CA SER A 757 30.675 11.013 64.899 1.00 19.23 586 O SER A 757 30.575 9.283 66.631 1.00 22.32 587 CB SER A 757 30.575 9.283 66.631 1.00 22.32 588 OG SER A 757 33.562 10.611 64.826 1.00 23.54 589 N LEU A 758 29.430 9.698 68.735 1.00 16.39 591 C LEU A 758 29.430 9.698 68.735 1.00 18.68 592 O LEU A 758 29.470 9.698 68.735 1.00 18.68 593 CB LEU A 758 29.470 9.698 68.735 1.00 18.68 594 CG LEU A 758 29.470 9.698 68.735 1.00 18.94 594 CG LEU A 758 29.470 9.698 68.735 1.00 18.94	20	568	CD2	TRP	Α	755	27.217	15.803	64.141	1.00	24.51
571 CE3 TRP A 755 26.189 14.869 63.979 1.00 25.75 572 CZ2 TRP A 755 27.089 16.388 61.743 1.00 29.86 573 CZ3 TRP A 755 27.089 16.388 61.743 1.00 29.86 574 CH2 TRP A 755 25.630 14.707 62.707 1.00 32.59 575 N MET A 756 29.114 13.357 64.820 1.00 21.38 576 CA MET A 756 29.114 13.357 64.820 1.00 21.38 577 C MET A 756 29.439 10.939 64.415 1.00 23.20 578 O MET A 756 28.848 12.243 63.896 1.00 18.69 579 CB MET A 756 29.439 10.939 64.415 1.00 23.20 580 CG MET A 756 29.432 12.529 62.511 1.00 21.49 580 CG MET A 756 29.112 11.430 61.496 1.00 22.22 581 SD MET A 756 27.367 11.449 60.920 1.00 27.03 582 CE MET A 756 27.451 12.902 59.772 1.00 26.64 583 N SER A 757 30.375 9.283 66.631 1.00 22.32 584 CA SER A 757 30.375 9.283 66.631 1.00 22.32 586 O SER A 757 30.376 8.078 66.718 1.00 22.32 587 CB SER A 757 30.376 8.078 66.718 1.00 23.54 588 OG SER A 757 33.562 10.611 64.826 1.00 31.88 590 CA LEU A 758 29.430 9.698 68.735 1.00 18.68 591 C LEU A 758 29.430 9.698 68.735 1.00 18.68 592 O LEU A 758 29.430 9.698 68.735 1.00 18.68 593 CB LEU A 758 29.431 9.698 69.755 1.00 18.68		569	NE1	TRP	Α	755	28.655	17.379	63.445	1.00	25.19
572 CZ2 TRP A 755 27.089 16.388 61.743 1.00 29.86 573 CZ3 TRP A 755 27.089 16.388 61.743 1.00 29.86 574 CH2 TRP A 755 25.630 14.707 62.707 1.00 32.59 574 CH2 TRP A 755 25.630 14.707 62.707 1.00 32.59 575 N MET A 756 29.114 13.357 64.820 1.00 21.38 576 CA MET A 756 28.848 12.243 63.896 1.00 18.69 577 C MET A 756 29.439 10.939 64.415 1.00 23.20 578 O MET A 756 29.432 12.529 62.511 1.00 21.49 580 CG MET A 756 29.122		570	CE2	TRP	Α	755	27.651	16.548	63.022	1.00	26.64
572 CZ2 TRP A 755 27.089 16.388 61.743 1.00 29.86 573 CZ3 TRP A 755 25.630 14.707 62.707 1.00 32.59 574 CH2 TRP A 755 26.083 15.465 61.608 1.00 30.85 575 N MET A 756 29.114 13.357 64.820 1.00 21.38 576 CA MET A 756 29.439 10.939 64.415 1.00 23.20 577 C MET A 756 28.848 12.243 63.896 1.00 18.69 577 C MET A 756 28.794 9.878 64.350 1.00 21.19 579 CB MET A 756 29.439 10.939 64.415 1.00 23.20 580 CG MET A 756 29.432 12.529 62.511 1.00 21.49 580 CG MET A 756 29.112 11.430 61.496 1.00 22.22 581 SD MET A 756 29.112 11.430 61.496 1.00 22.22 581 SD MET A 756 27.367 11.449 60.920 1.00 27.03 582 CE MET A 756 27.367 11.013 64.899 1.00 19.23 584 CA SER A 757 30.675 11.013 64.899 1.00 19.23 586 C SER A 757 30.575 9.283 66.631 1.00 22.32 587 CB SER A 757 30.376 8.078 66.718 1.00 21.09 588 OG SER A 757 32.759 10.190 65.911 1.00 23.54 589 N LEU A 758 30.150 10.149 67.548 1.00 20.06 590 CA LEU A 758 29.430 9.698 68.735 1.00 18.68 591 C LEU A 758 29.430 9.698 68.735 1.00 18.68 592 O LEU A 758 29.470 8.038 68.918 1.00 18.94 594 CG LEU A 758 29.170 10.80 69.675 1.00 14.15	25	571	CE3	TRP	Α	755	26.189	14.869	63.979	1.00	25.75
574 CH2 TRP A 755 26.083 15.465 61.608 1.00 30.85 575 N MET A 756 29.114 13.357 64.820 1.00 21.38 576 CA MET A 756 28.848 12.243 63.896 1.00 18.69 577 C MET A 756 29.439 10.939 64.415 1.00 23.20 578 O MET A 756 28.794 9.878 64.350 1.00 21.19 579 CB MET A 756 29.432 12.529 62.511 1.00 21.49 580 CG MET A 756 29.432 12.529 62.511 1.00 22.22 581 SD MET A 756 29.112 11.430 61.496 1.00 22.22 581 SD MET A 756 27.367 11.449 60.920 1.00 27.03 582 CE MET A 756 27.451 12.902 59.772 1.00 26.64 583 N SER A 757 30.675 11.013 64.899 1.00 19.23 584 CA SER A 757 30.575 9.283 66.631 1.00 22.32 585 C SER A 757 30.376 8.078 66.718 1.00 20.68 586 O SER A 757 33.562 10.611 64.826 1.00 31.88 58 OG SER A 757 33.562 10.611 64.826 1.00 31.88 59 CA LEU A 758 29.430 9.698 68.735 1.00 16.39 590 CA LEU A 758 29.430 9.698 68.735 1.00 18.68 591 C LEU A 758 29.430 9.698 68.735 1.00 18.68 592 O LEU A 758 27.709 8.038 68.918 1.00 18.94		572	CZ2	TRP	Α	755	27.089	16.388	61.743	1.00	29.86
30 575 N MET A 756 29.114 13.357 64.820 1.00 21.38 576 CA MET A 756 29.114 13.357 64.820 1.00 21.38 576 CA MET A 756 28.848 12.243 63.896 1.00 18.69 577 C MET A 756 29.439 10.939 64.415 1.00 23.20 578 O MET A 756 28.794 9.878 64.350 1.00 21.19 579 CB MET A 756 29.432 12.529 62.511 1.00 21.49 580 CG MET A 756 29.112 11.430 61.496 1.00 22.22 581 SD MET A 756 27.451 12.902 59.772 1.00 26.64 583 N SER A 757 30		573	CZ3	TRP	Α	755	25.630	14.707	62.707	1.00	32.59
576 CA MET A 756 28.848 12.243 63.896 1.00 18.69 577 C MET A 756 29.439 10.939 64.415 1.00 23.20 578 O MET A 756 29.432 12.529 62.511 1.00 21.49 579 CB MET A 756 29.432 12.529 62.511 1.00 21.49 580 CG MET A 756 29.112 11.430 61.496 1.00 22.22 581 SD MET A 756 27.367 11.449 60.920 1.00 27.03 582 CE MET A 756 27.367 11.449 60.920 1.00 27.03 583 N SER A 757 30.675 11.013 64.899 1.00 19.23 584 CA SER A 757 30.675 11.013 64.899 1.00 19.23 585 C SER A 757 30.575 9.283 66.631 1.00 20.68 586 O SER A 757 30.376 8.078 66.718 1.00 21.09 587 CB SER A 757 32.759 10.190 65.911 1.00 23.54 588 OG SER A 757 33.562 10.611 64.826 1.00 31.88 590 CA LEU A 758 29.430 9.698 68.735 1.00 16.39 591 C LEU A 758 29.430 9.698 68.735 1.00 18.94 593 CB LEU A 758 29.147 10.880 69.675 1.00 18.94		574	CH2	TRP	Α	755	26.083	15.465	61.608	1.00	30.85
577 C MET A 756 29.439 10.939 64.415 1.00 23.20 578 O MET A 756 29.439 10.939 64.415 1.00 23.20 579 CB MET A 756 29.432 12.529 62.511 1.00 21.49 580 CG MET A 756 29.432 12.529 62.511 1.00 21.49 581 SD MET A 756 29.112 11.430 61.496 1.00 22.22 581 SD MET A 756 27.451 12.902 59.772 1.00 26.64 583 N SER A 757 30.675 11.013 64.899 1.00 19.23 584 CA SER A 757 30.575 9.283 66.631 1.00 22.32 585 C SER A 757 30.376 8.078 66.718 1.00 20.68 586 O SER A 757 32.759 10.190 65.911 1.00 23.54 588 OG SER A 757 33.562 10.611 64.826 1.00 31.88 590 CA LEU A 758 29.430 9.698 68.735 1.00 18.68 591 C LEU A 758 29.430 9.698 68.735 1.00 18.68 592 O LEU A 758 29.447 10.880 69.675 1.00 18.94 593 CB LEU A 758 29.147 10.880 69.675 1.00 18.94	30	575	N	MET	Α	756	29.114	13.357	64.820	1.00	21.38
578 O MET A 756 28.794 9.878 64.350 1.00 21.19 579 CB MET A 756 29.432 12.529 62.511 1.00 21.49 580 CG MET A 756 29.112 11.430 61.496 1.00 22.22 581 SD MET A 756 27.367 11.449 60.920 1.00 27.03 582 CE MET A 756 27.451 12.902 59.772 1.00 26.64 583 N SER A 757 30.675 11.013 64.899 1.00 19.23 584 CA SER A 757 31.344 9.845 65.451 1.00 22.32 585 C SER A 757 30.575 9.283 66.631 1.00 20.68 586 O SER A 757 30.376 8.078 66.718 1.00 21.09 587 CB SER A 757 32.759 10.190 65.911 1.00 23.54 588 OG SER A 757 33.562 10.611 64.826 1.00 31.88 50 S89 N LEU A 758 30.150 10.149 67.548 1.00 20.06 590 CA LEU A 758 29.430 9.698 68.735 1.00 16.39 591 C LEU A 758 29.430 9.698 68.918 1.00 18.94 593 CB LEU A 758 29.147 10.880 69.675 1.00 18.94		576	CA	MET	Α	756	28.848	12.243	63.896	1.00	18.69
579 CB MET A 756 29.432 12.529 62.511 1.00 21.49 580 CG MET A 756 29.112 11.430 61.496 1.00 22.22 581 SD MET A 756 27.367 11.449 60.920 1.00 27.03 582 CE MET A 756 27.451 12.902 59.772 1.00 26.64 583 N SER A 757 30.675 11.013 64.899 1.00 19.23 584 CA SER A 757 31.344 9.845 65.451 1.00 22.32 585 C SER A 757 30.575 9.283 66.631 1.00 20.68 586 O SER A 757 30.376 8.078 66.718 1.00 21.09 587 CB SER A 757 32.759 10.190 65.911 1.00 23.54 588 OG SER A 757 33.562 10.611 64.826 1.00 31.88 50 S89 N LEU A 758 30.150 10.149 67.548 1.00 20.06 590 CA LEU A 758 29.430 9.698 68.735 1.00 16.39 591 C LEU A 758 29.430 9.698 68.735 1.00 16.39 593 CB LEU A 758 29.147 10.880 69.675 1.00 18.94		577	С	MET	Α	756	29.439	10.939	64.415	1.00	23.20
580 CG MET A 756 29.112 11.430 61.496 1.00 22.22 581 SD MET A 756 27.367 11.449 60.920 1.00 27.03 582 CE MET A 756 27.451 12.902 59.772 1.00 26.64 583 N SER A 757 30.675 11.013 64.899 1.00 19.23 584 CA SER A 757 31.344 9.845 65.451 1.00 22.32 585 C SER A 757 30.575 9.283 66.631 1.00 20.68 586 O SER A 757 30.376 8.078 66.718 1.00 21.09 587 CB SER A 757 32.759 10.190 65.911 1.00 23.54 588 OG SER A 757 33.562 10.611 64.826 1.00 31.88 50 S89 N LEU A 758 30.150 10.149 67.548 1.00 20.06 590 CA LEU A 758 29.430 9.698 68.735 1.00 16.39 591 C LEU A 758 29.430 9.698 68.735 1.00 18.68 592 O LEU A 758 29.147 10.880 69.675 1.00 18.94 593 CB LEU A 758 29.147 10.880 69.675 1.00 14.15	35	578	0	MET	Α	756	28.794	9.878	64.350	1.00	21.19
581 SD MET A 756 27.367 11.449 60.920 1.00 27.03 582 CE MET A 756 27.451 12.902 59.772 1.00 26.64 583 N SER A 757 30.675 11.013 64.899 1.00 19.23 584 CA SER A 757 31.344 9.845 65.451 1.00 22.32 585 C SER A 757 30.575 9.283 66.631 1.00 20.68 586 O SER A 757 30.376 8.078 66.718 1.00 21.09 587 CB SER A 757 32.759 10.190 65.911 1.00 23.54 588 OG SER A 757 33.562 10.611 64.826 1.00 31.88 50 S89 N LEU A 758 30.150 10.149 67.548 1.00 20.06 590 CA LEU A 758 29.430 9.698 68.735 1.00 16.39 591 C LEU A 758 29.430 9.698 68.735 1.00 18.68 592 O LEU A 758 29.147 10.880 69.675 1.00 18.94 593 CB LEU A 758 29.147 10.880 69.675 1.00 14.15	<u> </u>	579	СВ	MET	Α	756	29.432	12.529	62.511	1.00	21.49
582 CE MET A 756 27.451 12.902 59.772 1.00 26.64 583 N SER A 757 30.675 11.013 64.899 1.00 19.23 584 CA SER A 757 31.344 9.845 65.451 1.00 22.32 585 C SER A 757 30.575 9.283 66.631 1.00 20.68 586 O SER A 757 30.376 8.078 66.718 1.00 21.09 587 CB SER A 757 32.759 10.190 65.911 1.00 23.54 588 OG SER A 757 33.562 10.611 64.826 1.00 31.88 589 N LEU A 758 30.150 10.149 67.548 1.00 20.06 590 CA LEU A 758 29.430 9.698 68.735 1.00 16.39 591 C LEU A 758 29.430 9.698 68.355 1.00 18.68 592 O LEU A 758 29.147 10.880 69.675 1.00 18.94 593 CB LEU A 758 29.147 10.880 69.675 1.00 14,15		580	CG	MET	Α	756	29.112	11.430	61.496	1.00	22.22
583 N SER A 757 30.675 11.013 64.899 1.00 19.23 584 CA SER A 757 31.344 9.845 65.451 1.00 22.32 585 C SER A 757 30.575 9.283 66.631 1.00 20.68 586 O SER A 757 30.376 8.078 66.718 1.00 21.09 587 CB SER A 757 32.759 10.190 65.911 1.00 23.54 588 OG SER A 757 33.562 10.611 64.826 1.00 31.88 50 S89 N LEU A 758 30.150 10.149 67.548 1.00 20.06 590 CA LEU A 758 29.430 9.698 68.735 1.00 16.39 591 C LEU A 758 29.430 9.698 68.735 1.00 18.68 592 O LEU A 758 27.709 8.038 68.918 1.00 18.94 593 CB LEU A 758 29.147 10.880 69.675 1.00 14,15	_	581	SD	MET	Α	756	27.367	11.449	60.920	1.00	27.03
584 CA SER A 757 31.344 9.845 65.451 1.00 22.32 585 C SER A 757 30.575 9.283 66.631 1.00 20.68 586 O SER A 757 30.376 8.078 66.718 1.00 21.09 587 CB SER A 757 32.759 10.190 65.911 1.00 23.54 588 OG SER A 757 33.562 10.611 64.826 1.00 31.88 589 N LEU A 758 30.150 10.149 67.548 1.00 20.06 590 CA LEU A 758 29.430 9.698 68.735 1.00 16.39 591 C LEU A 758 28.105 9.061 68.355 1.00 18.68 592 O LEU A 758 27.709 8.038 68.918 1.00 18.94 593 CB LEU A 758 29.147 10.880 69.675 1.00 14.15	40	582	CE	MET	Α	756	27.451	12.902	59.772	1.00	26.64
585 C SER A 757 30.575 9.283 66.631 1.00 20.68 586 O SER A 757 30.376 8.078 66.718 1.00 21.09 587 CB SER A 757 32.759 10.190 65.911 1.00 23.54 588 OG SER A 757 33.562 10.611 64.826 1.00 31.88 50 S89 N LEU A 758 30.150 10.149 67.548 1.00 20.06 590 CA LEU A 758 29.430 9.698 68.735 1.00 16.39 591 C LEU A 758 28.105 9.061 68.355 1.00 18.68 592 O LEU A 758 27.709 8.038 68.918 1.00 18.94 593 CB LEU A 758 29.147 10.880 69.675 1.00 14,15			N	SER	Α	757	30.675	11.013	64.899	1.00	19.23
586 O SER A 757 30.376 8.078 66.718 1.00 21.09 587 CB SER A 757 32.759 10.190 65.911 1.00 23.54 588 OG SER A 757 33.562 10.611 64.826 1.00 31.88 589 N LEU A 758 30.150 10.149 67.548 1.00 20.06 590 CA LEU A 758 29.430 9.698 68.735 1.00 16.39 591 C LEU A 758 28.105 9.061 68.355 1.00 18.68 592 O LEU A 758 27.709 8.038 68.918 1.00 18.94 593 CB LEU A 758 29.147 10.880 69.675 1.00 14.15	_			SER	Α	757	31.344	9.845	65.451	1.00	22.32
587 CB SER A 757 32.759 10.190 65.911 1.00 23.54 588 OG SER A 757 33.562 10.611 64.826 1.00 31.88 589 N LEU A 758 30.150 10.149 67.548 1.00 20.06 590 CA LEU A 758 29.430 9.698 68.735 1.00 16.39 591 C LEU A 758 28.105 9.061 68.355 1.00 18.68 592 O LEU A 758 27.709 8.038 68.918 1.00 18.94 593 CB LEU A 758 29.147 10.880 69.675 1.00 14,15	45			SER	Α	757	30.575	9.283	66.631	1.00	20.68
588 OG SER A 757 33.562 10.611 64.826 1.00 31.88 589 N LEU A 758 30.150 10.149 67.548 1.00 20.06 590 CA LEU A 758 29.430 9.698 68.735 1.00 16.39 591 C LEU A 758 28.105 9.061 68.355 1.00 18.68 592 O LEU A 758 27.709 8.038 68.918 1.00 18.94 593 CB LEU A 758 29.147 10.880 69.675 1.00 14,15				SER	Α	757	30.376	8.078	66.718	1.00	21.09
50				SER	Α	757	32.759	10.190	65.911	1.00	23.54
590 CA LEU A 758 30.150 10.149 67.548 1.00 20.06 590 CA LEU A 758 29.430 9.698 68.735 1.00 16.39 591 C LEU A 758 28.105 9.061 68.355 1.00 18.68 592 O LEU A 758 27.709 8.038 68.918 1.00 18.94 593 CB LEU A 758 29.147 10.880 69.675 1.00 14,15			OG	SER	Α	757	33.562	10.611	64.826	1.00	31.88
591 C LEU A 758 28.105 9.061 68.355 1.00 18.68 592 O LEU A 758 27.709 8.038 68.918 1.00 18.94 593 CB LEU A 758 29.147 10.880 69.675 1.00 14,15	50			LEU	Α	758	30.150	10.149	67.548	1.00	20.06
55 O LEU A 758 27.709 8.038 68.918 1.00 18.94 593 CB LEU A 758 29.147 10.880 69.675 1.00 14,15	_			LEU	Α	758	29.430	9.698	68.735	1.00	16.39
593 CB LEU A 758 29.147 10.880 69.675 1.00 14,15	-			LEU	Α	758	28.105	9.061	68.355	1.00	18.68
594 CG LEU A 750 00070 14.15	55				Α	758	27.709	8.038	68.918	1.00	18.94
594 CG LEU A 758 30.373 11.599 70.232 1.00 20.53	_				Α	758	29.147	10.880	69.675	1.00	14,15
	L	594	CG	LEU	Α	758	30.373	11.599	70.232	1.00	20.53

		THREE	-DIMENSION	IAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PG	i	
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	595	CD1	LEU	Α	758	29.919	12.855	70.981	1.00	20.07
	596	CD2	LEU	Α	758	31.121	10.656	71.186	1.00	24.11
	597	N	MET	Α	759	27.410	9.674	67.404	1.00	18.42
10	598	CA	MET	A	759	26.125	9.149	67.001	1.00	19.21
	599	С	MET	A	759	26.209	7.828	66.242	1.00	19.93
	600	0	MET	Α	759	25.363	6.949	66.456	1.00	23.09
15	601	СВ	MET	Α	759	25.364	10.197	66.193	1.00	21.20
15	602	CG	MET	Α	759	24.937	11.397	67.065	1.00	21.45
	603	SD	MET	Α	759	23.950	12.587	66.168	1.00	25.97
	604	CE	MET	Α	759	23.941	13.961	67.348	1.00	26.52
20	605	N	VAL	Α	760	27.193	7.673	65.365	1.00	18.66
	606	CA	VAL	Α	760	27.300	6.397	64.638	1.00	19,71
	607	С	VAL	Α	760	27.779	5.292	65.596	1.00	22.38
25	608	0	VAL	Α	760	27.409	4.127	65.448	1.00	18.63
20	609	СВ	VAL	Α	760	28.262	6.492	63.417	1.00	20.60
	610	CG1	VAL	Α	760	29.708	6.659	63.860	1.00	22.90
	611	CG2	VAL	Α	760	28.129	5.226	62.559	1.00	22.05
30	612	N	PHE	Α	761	28.597	5.672	66.572	1.00	18.16
	613	CA	PHE	Α	761	29.107	4.729	67.579	1.00	20.65
	614	С	PHE	Α	761	27.907	4.256	68.419	1.00	21.25
35	615	0	PHE	Α	761	27.773	3.058	68.717	1.00	23.39
	616	СВ	PHE	Α	761	30.166	5.441	68.447	1.00	19.84
	617	CG	PHE	Α	761	31.100	4.502	69.206	1.00	22.22
	618	CD1	PHE	Α	761	31.944	3.631	68.520	1.00	22.72
40	619	CD2	PHE	Α	761	31.158	4.529	70.597	1.00	23.08
	620	CE1	PHE	Α	761	32.834	2.802	69.200	1.00	23.74
	621	CE2	PHE	Α	761	32.044	3.706	71.297	1.00	24.95
45	622	CZ	PHE	Α	761	32.880	2.842	70.602	1.00	22.67
_	623	N	GLY	Α	762	27.041	5.196	68.803	1.00	18.00
	624	CA	GLY	Α	762	25.851	4.861	69.564	1.00	19.15
	625	С	GLY	Α	762	24.928	3.957	68.761	1.00	19.60
50	626	0	GLY	Α	762	24.304	3.038	69.306	1.00	17.94
	627	N	LEU	Α	763	24.815	4.241	67.465	1.00	18.18
	628	CA	LEU	Α	763	24.008	3.416	66.575	1.00	18.82
55	629	С	LEU	Α	763	24.562	1.994	66.611	1.00	20.32
	630	0	LEU	Α	763	23.795	1.011	66.652	1.00	21.06
	631	СВ	LEU	Α	763	24.088	3.962	65.149	1.00	18.85

ATOM ATOM TYPE RESIDUE # X Y Z OCC B ATOM			THREE	-DIMENSION	IAL CO	ORDINA	TES OF P	R IN COMPLI	EX WITH PG		
633		ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
634 CD2 LEU A 763 24.048 3.657 62.680 1.00 22.01 635 N GLY A 764 25.889 1.892 66.591 1.00 19.32 636 CA GLY A 764 26.546 0.596 66.609 1.00 22.15 637 C GLY A 764 26.546 0.596 66.609 1.00 22.15 638 O GLY A 764 25.798 -1.351 67.826 1.00 18.65 639 N TRP A 765 26.279 0.520 68.998 1.00 18.65 640 CA TRP A 765 26.279 0.520 68.998 1.00 18.65 641 C TRP A 765 24.485 -0.582 70.330 1.00 20.69 642 O TRP A 765 24.202 -1.710 70.730 1.00 20.73 643 CB TRP A 765 26.279 0.832 71.426 1.00 19.80 644 CG TRP A 765 25.985 0.232 72.766 1.00 20.73 645 CD1 TRP A 765 24.895 0.450 73.543 1.00 26.55 646 CD2 TRP A 765 24.936 -0.354 74.660 1.00 25.80 647 NE1 TRP A 765 26.076 -1.114 74.618 1.00 27.72 648 CE2 TRP A 765 26.976 -1.114 74.618 1.00 27.72 649 CE3 TRP A 765 26.558 -2.080 75.522 1.00 23.76 650 CZ2 TRP A 765 27.974 -1.408 73.145 1.00 24.76 651 CZ3 TRP A 765 27.974 -1.408 73.145 1.00 24.76 652 CH2 TRP A 765 27.477 -2.692 75.217 1.00 23.99 653 N ARG A 766 23.544 0.273 69.936 1.00 20.81 654 CA ARG A 766 21.844 -1.288 69.048 1.00 18.86 655 C ARG A 766 21.246 -2.299 70.632 1.00 20.30 666 O ARG A 766 21.246 2.229 70.632 1.00 20.30 667 CB ARG A 766 21.246 2.229 70.632 1.00 20.30 668 CG ARG A 766 21.230 4.908 68.764 1.00 23.30 669 CD ARG A 766 21.246 2.229 70.632 1.00 20.30 660 NE ARG A 766 21.230 4.908 68.764 1.00 22.33 660 NE ARG A 766 21.230 4.908 68.764 1.00 20.31 665 CA SER A 767 22.273 -3.406 66.899 1.00 18.59 6	5	632	CG	LEU	Α	763	23.668	3.022	64.007	1.00	15.12
10		633	CD1	LEU	Α	763	22.181	2.761	64.078	1.00	21.31
S35		634	CD2	LEU	Α	763	24.048	3.657	62.680	1.00	22.01
636 CA GLY A 764 26.546 0.596 66.609 1.00 22.15 637 C GLY A 764 26.182 0.164 67.864 1.00 22.09 638 O GLY A 764 26.182 0.164 67.864 1.00 22.09 638 O GLY A 764 25.798 1.351 67.826 1.00 18.65 639 N TRP A 765 26.279 0.520 68.998 1.00 18.65 641 C TRP A 765 25.954 0.118 70.265 1.00 21.70 641 C TRP A 765 24.485 0.592 70.330 1.00 20.69 642 O TRP A 765 24.485 0.592 70.330 1.00 20.73 643 CB TRP A 765 24.202 1.710 70.730 1.00 20.73 644 CG TRP A 765 25.885 0.232 71.426 1.00 19.80 644 CG TRP A 765 25.885 0.232 72.766 1.00 20.60 644 CG TRP A 765 24.895 0.450 73.543 1.00 26.35 646 CD2 TRP A 765 24.895 0.450 73.543 1.00 22.75 647 NE1 TRP A 765 26.765 0.770 73.435 1.00 22.75 648 CE2 TRP A 765 26.765 0.770 73.435 1.00 27.72 648 CE2 TRP A 765 26.766 1.074 74.661 1.00 25.80 649 CE3 TRP A 765 26.576 1.114 74.618 1.00 27.72 649 CE3 TRP A 765 26.558 20.09 75.522 1.00 28.33 651 CZ3 TRP A 765 26.558 20.09 75.522 1.00 28.33 651 CZ3 TRP A 765 26.558 20.09 75.522 1.00 28.33 651 CZ3 TRP A 765 26.558 20.09 75.522 1.00 28.33 652 CH2 TRP A 765 27.747 26.692 75.217 1.00 23.99 653 N ARG A 766 23.544 0.273 69.936 1.00 25.79 653 N ARG A 766 21.544 0.273 69.936 1.00 20.81 655 C ARG A 766 21.246 2.229 70.632 1.00 20.81 655 C ARG A 766 21.246 2.229 70.632 1.00 20.81 656 C ARG A 766 21.246 2.229 70.632 1.00 20.81 665 C ARG A 766 21.246 2.229 70.632 1.00 20.30 665 C ARG A 766 21.246 2.229 70.632 1.00 20.30 665 C ARG A 766 21.246 2.229 70.632 1.00 20.30 665 C ARG A 766 21.246 2.229 70.632 1.00 20.30 665 C ARG A 766 21.246 2.229 70.632 1.00 20.30 665 C ARG A 766 21.246 2.229 70.632 1.00 20.30 665 C ARG A 766 21.246 2.229 70.632 1.00 20.30 665 C ARG A 766 21.246 2.229 70.632 1.00 20.30 665 C ARG A 766 21.246 2.229 70.632 1.00 20.30 665 C ARG A 766 21.246 2.229 70.632 1.00 20.30 665 C ARG A 766 21.246 2.229 70.632 1.00 20.30 665 C ARG A 766 21.246 2.229 70.632 1.00 20.30 665 C ARG A 766 21.230 1.00 5.412 67.519 1.00 19.31 666 C ARG A 766 21.230 1.00 5.412 67.519 1.00 19.31 666 C ARG A 766 21.230 4.098 68.742 1.00 22.33 666 C ARG A 766 21.230 4.098 68.742	10	635	N	GLY	Α	764	25.889	1.892	66.591	1.00	19.32
637 C GLY A 764 25.798 -1.351 67.826 1.00 18.52 639 N TRP A 765 26.279 0.520 68.998 1.00 18.65 640 CA TRP A 765 24.485 -0.582 70.330 1.00 20.69 641 C TRP A 765 24.485 -0.582 70.330 1.00 20.69 642 O TRP A 765 24.202 -1.710 70.730 1.00 20.73 643 CB TRP A 765 26.275 0.832 71.426 1.00 19.80 644 CG TRP A 765 25.985 0.450 73.543 1.00 22.73 646 CD2 TRP A 765 24.895 0.450 73.543 1.00 22.75 646 CD2 TRP A 765 24.995 0.450 73.543 1.00 22.75 646 CD2 TRP A 765 26.676 -0.777 73.435 1.00 22.75 647 NE1 TRP A 765 26.676 -0.777 73.435 1.00 22.75 648 CE2 TRP A 765 26.676 -0.777 73.435 1.00 22.75 648 CE2 TRP A 765 26.676 -1.114 74.618 1.00 27.72 649 CE3 TRP A 765 26.588 2.080 75.522 1.00 24.76 650 CZ2 TRP A 765 26.588 2.080 75.522 1.00 24.76 651 CZ3 TRP A 765 26.588 2.080 75.522 1.00 23.39 652 CH2 TRP A 765 27.747 -2.692 75.217 1.00 23.99 652 CH2 TRP A 765 21.364 0.273 69.936 1.00 20.81 654 CA ARG A 766 21.844 -1.288 69.048 1.00 20.81 655 CA ARG A 766 21.844 -1.288 69.048 1.00 18.86 655 CA ARG A 766 21.266 -2.185 69.381 1.00 20.30 665 CD ARG A 766 21.266 -2.185 69.381 1.00 20.30 665 CD ARG A 766 21.246 2.229 70.632 1.00 20.30 665 CD ARG A 766 21.246 2.229 70.632 1.00 20.30 665 CD ARG A 766 21.246 2.229 70.632 1.00 20.30 666 CD ARG A 766 21.246 2.229 70.632 1.00 20.30 666 CD ARG A 766 21.246 2.229 70.632 1.00 20.30 666 CD ARG A 766 21.246 2.229 70.632 1.00 20.30 666 CD ARG A 766 21.246 2.229 70.632 1.00 20.30 666 CD ARG A 766 21.246 2.229 70.632 1.00 20.30 666 CD ARG A 766 21.246 2.229 70.632 1.00 20.30 666 CD ARG A 766 21.246 2.229 70.632 1.00 20.30 666 NE ARG A 766 21.246 2.229 70.632 1.00 20.30 666 NE ARG A 766 21.246 2.229 70.632 1.00 20.30 666 NE ARG A 766 21.246 2.229 70.632 1.00 20.30 666 NE ARG A 766 21.246 2.229 70.632 1.00 20.30 666 NE ARG A 766 21.246 2.229 70.632 1.00 20.30 666 NE ARG A 766 21.246 2.229 70.632 1.00 20.30 666 NE ARG A 766 21.246 2.229 70.632 1.00 20.30 666 NE ARG A 766 21.246 2.229 70.632 1.00 20.31 666 NE ARG A 766 21.246 2.229 70.632 1.00 20.31 666 NE ARG A 766 21.246 2.229 70.632 1.00 20.31 666 NE ARG		636	CA	GLY	Α	764	26.546	0.596	66.609	1.00	22.15
SS		637	С	GLY	Α	764	26.182	-0.164	67.864	1.00	22.09
649 N 1RP A 765 25.84 -0.118 70.255 1.00 21.70 641 C TRP A 765 25.954 -0.118 70.255 1.00 21.70 642 O TRP A 765 24.485 -0.582 70.330 1.00 20.69 643 CB TRP A 765 24.202 -1.710 70.730 1.00 20.73 643 CB TRP A 765 26.275 0.832 71.426 1.00 19.80 644 CG TRP A 765 25.985 0.232 72.766 1.00 20.60 645 CD1 TRP A 765 24.895 0.450 73.543 1.00 26.35 646 CD2 TRP A 765 24.895 0.450 73.543 1.00 25.75 647 NE1 TRP A 765 24.936 -0.354 74.660 1.00 22.75 648 CE2 TRP A 765 26.765 -0.770 73.435 1.00 22.75 649 CE3 TRP A 765 26.076 -1.114 74.618 1.00 27.72 649 CE3 TRP A 765 27.974 -1.408 73.145 1.00 27.72 650 CZ2 TRP A 765 26.558 2.080 75.522 1.00 28.33 651 CZ3 TRP A 765 26.558 2.080 75.522 1.00 28.33 651 CZ3 TRP A 765 26.584 0.2372 74.045 1.00 25.79 652 CH2 TRP A 765 26.558 -2.080 75.522 1.00 28.33 651 CZ3 TRP A 765 27.747 -2.692 75.217 1.00 23.99 652 CH2 TRP A 766 23.544 0.273 69.936 1.00 20.81 654 CA ARG A 766 23.544 0.273 69.936 1.00 20.81 655 C ARG A 766 21.844 -1.288 69.048 1.00 18.86 656 C ARG A 766 21.233 1.061 69.967 1.00 18.86 657 CB ARG A 766 21.233 1.061 69.624 1.00 18.28 668 CG ARG A 766 21.233 1.061 69.624 1.00 20.05 669 NE ARG A 766 21.233 1.061 69.624 1.00 20.05 660 NE ARG A 766 21.239 4.908 68.742 1.00 22.33 661 CZ ARG A 766 21.239 4.908 68.742 1.00 22.33 662 NH1 ARG A 766 21.239 4.908 68.742 1.00 22.33 663 NH2 ARG A 766 21.239 4.908 68.742 1.00 22.33 664 N SER A 767 22.279 -3.660 67.473 1.00 20.91 665 CA SER A 767 22.279 -3.660 67.473 1.00 19.96 666 C SER A 767 22.271 -2.340 66.899 1.00 19.91		638	0	GLY	Α	764	25.798	-1.351	67.826	1.00	18.52
641	15	639	N	TRP	Α	765	26.279	0.520	68.998	1.00	18.65
641 C TRP A 765 24.202 -1.710 70.730 1.00 20.73 643 CB TRP A 765 26.275 0.832 71.426 1.00 19.80 644 CG TRP A 765 25.985 0.232 72.766 1.00 20.60 645 CD1 TRP A 765 24.895 0.450 73.543 1.00 26.35 646 CD2 TRP A 765 26.765 -0.770 73.435 1.00 22.75 647 NE1 TRP A 765 24.936 -0.354 74.660 1.00 25.80 648 CE2 TRP A 765 26.076 -1.114 74.618 1.00 27.72 648 CE2 TRP A 765 26.076 -1.114 74.618 1.00 27.72 649 CE3 TRP A 765 26.558 -2.080 75.522 1.00 28.33 650 CZ2 TRP A 765 28.461 -2.372 74.045 1.00 25.79 651 CZ3 TRP A 765 28.461 -2.372 74.045 1.00 25.79 652 CH2 TRP A 765 27.747 -2.692 75.217 1.00 23.99 653 N ARG A 766 23.544 0.273 69.936 1.00 20.81 654 CA ARG A 766 21.844 -1.288 69.048 1.00 18.44 656 C ARG A 766 21.864 -1.288 69.048 1.00 18.44 656 C ARG A 766 21.206 -2.185 69.381 1.00 20.30 657 CB ARG A 766 21.223 1.061 69.624 1.00 18.28 658 CG ARG A 766 21.223 1.061 69.624 1.00 18.28 659 CD ARG A 766 21.223 1.061 69.624 1.00 20.30 657 CB ARG A 766 21.236 -0.116 69.87 1.00 20.30 658 CG ARG A 766 21.236 -0.166 69.624 1.00 20.30 659 CD ARG A 766 21.239 4.908 68.742 1.00 22.33 660 NE ARG A 766 21.239 4.908 68.742 1.00 22.33 661 CZ ARG A 766 21.299 5.442 69.754 1.00 22.33 662 NH1 ARG A 766 21.299 5.442 69.754 1.00 22.33 663 NH2 ARG A 766 21.299 5.442 69.754 1.00 22.33 664 N SER A 767 22.299 -1.275 67.865 1.00 20.91 665 CA SER A 767 22.279 -3.360 67.473 1.00 19.31 666 C SER A 767 22.279 -3.360 67.473 1.00 19.66		640	CA	TRP	Α	765	25.954	-0.118	70.265	1.00	21.70
642		641	С	TRP	Α	765	24.485	-0.582	70.330	1.00	20.69
644 CG TRP A 765 25.985 0.232 72.766 1.00 20.60 645 CD1 TRP A 765 25.985 0.232 72.766 1.00 20.60 646 CD2 TRP A 765 24.996 0.450 73.543 1.00 22.75 647 NE1 TRP A 765 24.936 -0.354 74.660 1.00 22.75 648 CE2 TRP A 765 26.076 -1.114 74.618 1.00 27.72 650 CZ2 TRP A 765 26.558 -2.080 75.522 1.00 28.33 651 CZ3 TRP A 765 28.461 -2.372 74.045 1.00 25.79 651 CZ3 TRP A 765 28.461 -2.372 74.045 1.00 23.99 35 651 CZ3 TRP A 765	20	642	0	TRP	Α	765	24.202	-1.710	70.730	1.00	20.73
25		643	СВ	TRP	Α	765	26.275	0.832	71.426	1.00	19.80
26		644	CG	TRP	Α	765	25.985	0.232	72.766	1.00	20.60
646 CD2 IHP A 765 26.763 30.776 73.435 10.0 25.80 647 NE1 TRP A 765 24.936 -0.354 74.660 1.00 25.80 648 CE2 TRP A 765 26.076 -1.114 74.618 1.00 27.72 649 CE3 TRP A 765 27.974 -1.408 73.145 1.00 24.76 650 CZ2 TRP A 765 26.558 -2.080 75.522 1.00 28.33 651 CZ3 TRP A 765 28.461 -2.372 74.045 1.00 25.79 652 CH2 TRP A 765 27.747 -2.692 75.217 1.00 23.99 653 N ARG A 766 23.544 0.273 69.936 1.00 20.81 654 CA ARG A 766 22.136 -0.116 69.987 1.00 18.86 655 C ARG A 766 21.844 -1.288 69.048 1.00 18.44 666 O ARG A 766 21.066 -2.185 69.381 1.00 20.30 657 CB ARG A 766 21.223 1.061 69.624 1.00 18.28 658 CG ARG A 766 21.223 1.061 69.624 1.00 18.28 669 CD ARG A 766 20.179 3.260 70.256 1.00 20.05 660 NE ARG A 766 20.179 3.260 70.256 1.00 25.08 661 CZ ARG A 766 21.239 4.908 68.956 1.00 22.33 662 NH1 ARG A 766 21.239 4.908 68.742 1.00 22.33 663 NH2 ARG A 766 21.380 5.412 67.519 1.00 19.31 664 N SER A 767 22.469 -1.275 67.885 1.00 20.91 665 CA SER A 767 22.271 -2.340 66.899 1.00 18.59 666 C SER A 767 22.271 -2.340 66.899 1.00 19.96		645	CD1	TRP	Α	765	24.895	0.450	73.543	1.00	26.35
648 CE2 TRP A 765 26.076 -1.114 74.618 1.00 27.72 649 CE3 TRP A 765 27.974 -1.408 73.145 1.00 24.76 650 CZ2 TRP A 765 26.558 -2.080 75.522 1.00 28.33 651 CZ3 TRP A 765 28.461 -2.372 74.045 1.00 25.79 652 CH2 TRP A 765 27.747 -2.692 75.217 1.00 23.99 653 N ARG A 766 23.544 0.273 69.936 1.00 20.81 654 CA ARG A 766 22.136 -0.116 69.987 1.00 18.86 655 C ARG A 766 21.844 -1.288 69.048 1.00 18.44 656 O ARG A 766 21.223 1.061 69.624 1.00 18.28 658 CG ARG A 766 21.223 1.061 69.624 1.00 18.28 659 CD ARG A 766 21.246 2.229 70.632 1.00 20.05 660 NE ARG A 766 20.179 3.260 70.256 1.00 25.08 661 CZ ARG A 766 21.239 4.908 68.742 1.00 22.33 662 NH1 ARG A 766 21.380 5.412 67.519 1.00 19.31 664 N SER A 767 22.249 -1.275 67.885 1.00 20.91 665 CA SER A 767 22.271 -2.340 66.899 1.00 18.59 666 C SER A 767 22.130 -4.692 67.406 1.00 19.96	25	646	CD2	TRP	Α	765	26.765	-0.770	73.435	1.00	22.75
30 649 CE3 TRP A 765 27.974 -1.408 73.145 1.00 24.76 650 CZ2 TRP A 765 26.558 -2.080 75.522 1.00 28.33 651 CZ3 TRP A 765 28.461 -2.372 74.045 1.00 25.79 652 CH2 TRP A 765 27.747 -2.692 75.217 1.00 23.99 653 N ARG A 766 23.544 0.273 69.936 1.00 20.81 654 CA ARG A 766 22.136 -0.116 69.936 1.00 18.86 655 C ARG A 766 21.844 -1.288 69.048 1.00 18.44 40 656 O ARG A 766 21.844 -1.288 69.048 1.00 18.44 40 656 O ARG <t< td=""><td></td><td>647</td><td>NE1</td><td>TRP</td><td>Α</td><td>765</td><td>24.936</td><td>-0.354</td><td>74.660</td><td>1.00</td><td>25.80</td></t<>		647	NE1	TRP	Α	765	24.936	-0.354	74.660	1.00	25.80
650 CZ2 TRP A 765 26.558 -2.080 75.522 1.00 28.33 651 CZ3 TRP A 765 28.461 -2.372 74.045 1.00 25.79 652 CH2 TRP A 765 27.747 -2.692 75.217 1.00 23.99 653 N ARG A 766 23.544 0.273 69.936 1.00 20.81 654 CA ARG A 766 22.136 -0.116 69.987 1.00 18.86 655 C ARG A 766 21.844 -1.288 69.048 1.00 18.44 40 656 O ARG A 766 21.066 -2.185 69.381 1.00 20.30 657 CB ARG A 766 21.223 1.061 69.624 1.00 18.28 658 CG ARG A 766 <td< td=""><td></td><td>648</td><td>CE2</td><td>TRP</td><td>Α</td><td>765</td><td>26.076</td><td>-1.114</td><td>74.618</td><td>1.00</td><td>27.72</td></td<>		648	CE2	TRP	Α	765	26.076	-1.114	74.618	1.00	27.72
651 CZ3 TRP A 765 28.461 -2.372 74.045 1.00 25.79 652 CH2 TRP A 765 27.747 -2.692 75.217 1.00 23.99 653 N ARG A 766 23.544 0.273 69.936 1.00 20.81 654 CA ARG A 766 22.136 -0.116 69.987 1.00 18.86 655 C ARG A 766 21.844 -1.288 69.048 1.00 18.44 656 O ARG A 766 21.066 -2.185 69.381 1.00 20.30 657 CB ARG A 766 21.223 1.061 69.624 1.00 18.28 658 CG ARG A 766 21.223 1.061 69.624 1.00 18.28 659 CD ARG A 766 21.246 2.229 70.632 1.00 20.05 660 NE ARG A 766 20.179 3.260 70.256 1.00 25.08 661 CZ ARG A 766 21.239 4.908 68.742 1.00 22.33 662 NH1 ARG A 766 21.909 5.442 69.754 1.00 22.33 663 NH2 ARG A 766 21.909 5.442 69.754 1.00 22.33 664 N SER A 767 22.469 -1.275 67.885 1.00 20.91 665 CA SER A 767 22.271 -2.340 66.899 1.00 18.59 666 C SER A 767 22.130 -4.692 67.406 1.00 19.96	30	649	CE3	TRP	Α	765	27.974	-1.408	73.145	1.00	24.76
651 CZS TRP A 765 27.747 -2.692 75.217 1.00 23.99 653 N ARG A 766 23.544 0.273 69.936 1.00 20.81 654 CA ARG A 766 22.136 -0.116 69.987 1.00 18.86 655 C ARG A 766 21.844 -1.288 69.048 1.00 18.44 656 O ARG A 766 21.066 -2.185 69.381 1.00 20.30 657 CB ARG A 766 21.223 1.061 69.624 1.00 18.28 658 CG ARG A 766 21.223 1.061 69.624 1.00 18.28 659 CD ARG A 766 21.246 2.229 70.632 1.00 20.05 660 NE ARG A 766 20.179 3.260 70.256 1.00 25.08 661 CZ ARG A 766 20.413 3.889 68.956 1.00 20.13 662 NH1 ARG A 766 21.239 4.908 68.742 1.00 22.33 663 NH2 ARG A 766 21.909 5.442 69.754 1.00 22.73 664 N SER A 767 22.469 -1.275 67.885 1.00 20.91 665 CA SER A 767 22.271 -2.340 66.899 1.00 18.59 666 C SER A 767 22.130 -4.692 67.406 1.00 19.96		650	CZ2	TRP	Α	765	26.558	-2.080	75.522	1.00	28.33
35 652 CH2 THT A 766 23.544 0.273 69.936 1.00 20.81 654 CA ARG A 766 22.136 -0.116 69.987 1.00 18.86 655 C ARG A 766 21.844 -1.288 69.048 1.00 18.44 40 656 O ARG A 766 21.844 -1.288 69.048 1.00 18.44 40 656 O ARG A 766 21.066 -2.185 69.381 1.00 20.30 657 CB ARG A 766 21.223 1.061 69.624 1.00 18.28 658 CG ARG A 766 21.246 2.229 70.632 1.00 20.05 45 669 CD ARG A 766 20.413 3.889 68.956 1.00 20.13 45 661 CZ </td <td></td> <td>651</td> <td>CZ3</td> <td>TRP</td> <td>Α</td> <td>765</td> <td>28.461</td> <td>-2.372</td> <td>74.045</td> <td>1.00</td> <td>25.79</td>		651	CZ3	TRP	Α	765	28.461	-2.372	74.045	1.00	25.79
653 N ARG A 766 23.544 0.273 69.956 1.00 20.01 654 CA ARG A 766 22.136 -0.116 69.987 1.00 18.86 655 C ARG A 766 21.844 -1.288 69.048 1.00 18.44 656 O ARG A 766 21.066 -2.185 69.381 1.00 20.30 657 CB ARG A 766 21.223 1.061 69.624 1.00 18.28 658 CG ARG A 766 21.246 2.229 70.632 1.00 20.05 659 CD ARG A 766 20.179 3.260 70.256 1.00 25.08 660 NE ARG A 766 20.413 3.889 68.956 1.00 20.13 661 CZ ARG A 766 21.239 4.908 68.742 1.00 22.33 662 NH1 ARG A 766 21.909 5.442 69.754 1.00 22.73 663 NH2 ARG A 766 21.380 5.412 67.519 1.00 19.31 664 N SER A 767 22.469 -1.275 67.885 1.00 20.91 665 CA SER A 767 22.271 -2.340 66.899 1.00 18.59 666 C SER A 767 22.130 -4.692 67.406 1.00 19.96		652	CH2	TRP	Α	765	27.747	-2.692	75.217	1.00	23.99
654 CA ARG A 766 21.844 -1.288 69.048 1.00 18.44 655 C ARG A 766 21.066 -2.185 69.381 1.00 20.30 657 CB ARG A 766 21.223 1.061 69.624 1.00 18.28 658 CG ARG A 766 21.246 2.229 70.632 1.00 20.05 659 CD ARG A 766 20.179 3.260 70.256 1.00 25.08 660 NE ARG A 766 20.413 3.889 68.956 1.00 20.13 661 CZ ARG A 766 21.239 4.908 68.742 1.00 22.33 662 NH1 ARG A 766 21.399 5.442 69.754 1.00 22.73 663 NH2 ARG A 766 21.380 5.412 67.519 1.00 19.31 664 N SER A 767 22.469 -1.275 67.885 1.00 20.91 665 CA SER A 767 22.271 -2.340 66.899 1.00 18.59 666 C SER A 767 22.130 -4.692 67.406 1.00 19.96	35	653	N	ARG	Α	766	23.544	0.273	69.936	1.00	20.81
656 O ARG A 766 21.066 -2.185 69.381 1.00 20.30 657 CB ARG A 766 21.223 1.061 69.624 1.00 18.28 658 CG ARG A 766 21.246 2.229 70.632 1.00 20.05 659 CD ARG A 766 20.179 3.260 70.256 1.00 25.08 660 NE ARG A 766 20.413 3.889 68.956 1.00 20.13 661 CZ ARG A 766 21.239 4.908 68.742 1.00 22.33 662 NH1 ARG A 766 21.909 5.442 69.754 1.00 22.73 663 NH2 ARG A 766 21.380 5.412 67.519 1.00 19.31 664 N SER A 767 22.469 -1.275 67.885 1.00 20.91 665 CA SER A 767 22.271 -2.340 66.899 1.00 18.59 666 C SER A 767 22.793 -3.660 67.473 1.00 24.76 667 O SER A 767 22.130 -4.692 67.406 1.00 19.96		654	CA	ARG	Α	766	22.136	-0.116	 	1.00	18.86
657 CB ARG A 766 21.223 1.061 69.624 1.00 18.28 658 CG ARG A 766 21.246 2.229 70.632 1.00 20.05 659 CD ARG A 766 20.179 3.260 70.256 1.00 25.08 660 NE ARG A 766 20.413 3.889 68.956 1.00 20.13 661 CZ ARG A 766 21.239 4.908 68.742 1.00 22.33 662 NH1 ARG A 766 21.239 4.908 68.742 1.00 22.73 663 NH2 ARG A 766 21.380 5.412 69.754 1.00 22.73 664 N SER A 767 22.469 -1.275 67.885 1.00 20.91 665 CA SER A 767 22.271 -2.340 66.899 1.00 18.59 666 C SER A 767 22.130 -4.692 67.406 1.00 19.96		655	С	ARG	Α	766	21.844	-1.288	69.048	1.00	18.44
657 CB ARG A 766 21.246 2.229 70.632 1.00 20.05 658 CG ARG A 766 20.179 3.260 70.256 1.00 25.08 659 CD ARG A 766 20.179 3.260 70.256 1.00 25.08 660 NE ARG A 766 20.413 3.889 68.956 1.00 20.13 661 CZ ARG A 766 21.239 4.908 68.742 1.00 22.33 662 NH1 ARG A 766 21.909 5.442 69.754 1.00 22.73 663 NH2 ARG A 766 21.380 5.412 67.519 1.00 19.31 664 N SER A 767 22.469 -1.275 67.885 1.00 20.91 665 CA SER A 767 22.271 -2.340 66.899 1.00 18.59 666 C SER A 767 22.793 -3.660 67.473 1.00 24.76 667 O SER A 767 22.130 -4.692 67.406 1.00 19.96	40	656	0	ARG	Α	766	21.066	-2.185	69.381	1.00	20.30
658 CG ARG A 766 20.179 3.260 70.256 1.00 25.08 660 NE ARG A 766 20.413 3.889 68.956 1.00 20.13 661 CZ ARG A 766 21.239 4.908 68.742 1.00 22.33 662 NH1 ARG A 766 21.909 5.442 69.754 1.00 22.73 663 NH2 ARG A 766 21.380 5.412 67.519 1.00 19.31 664 N SER A 767 22.469 -1.275 67.885 1.00 20.91 665 CA SER A 767 22.271 -2.340 66.899 1.00 18.59 666 C SER A 767 22.793 -3.660 67.473 1.00 24.76 667 O SER A 767 22.130 -4.692 67.406 1.00 19.96		657	СВ	ARG	Α	766	21.223	1.061	69.624	1.00	18.28
45 659 CD ARG A 766 20.413 3.889 68.956 1.00 20.13 660 NE ARG A 766 21.239 4.908 68.742 1.00 22.33 662 NH1 ARG A 766 21.909 5.442 69.754 1.00 22.73 663 NH2 ARG A 766 21.380 5.412 67.519 1.00 19.31 664 N SER A 767 22.469 -1.275 67.885 1.00 20.91 665 CA SER A 767 22.271 -2.340 66.899 1.00 18.59 666 C SER A 767 22.130 -4.692 67.406 1.00 19.96		658	CG	ARG	Α	766	21.246	2.229	70.632	+	
660 NE ARG A 766 20.413 3.889 68.956 1.00 20.13 661 CZ ARG A 766 21.239 4.908 68.742 1.00 22.33 662 NH1 ARG A 766 21.909 5.442 69.754 1.00 22.73 663 NH2 ARG A 766 21.380 5.412 67.519 1.00 19.31 664 N SER A 767 22.469 -1.275 67.885 1.00 20.91 665 CA SER A 767 22.271 -2.340 66.899 1.00 18.59 666 C SER A 767 22.793 -3.660 67.473 1.00 24.76 667 O SER A 767 22.130 -4.692 67.406 1.00 19.96	45	659	CD	ARG	Α	766	20.179	3.260	70.256		
661 CZ ARG A 766 21.909 5.442 69.754 1.00 22.73 662 NH1 ARG A 766 21.909 5.442 69.754 1.00 22.73 663 NH2 ARG A 766 21.380 5.412 67.519 1.00 19.31 664 N SER A 767 22.469 -1.275 67.885 1.00 20.91 665 CA SER A 767 22.271 -2.340 66.899 1.00 18.59 666 C SER A 767 22.793 -3.660 67.473 1.00 24.76 667 O SER A 767 22.130 -4.692 67.406 1.00 19.96	43	660	NE	ARG	A	766	20.413	3.889	68.956	1.00	
50 662 NH1 ARG A 766 21.380 5.412 67.519 1.00 19.31 663 NH2 ARG A 766 21.380 5.412 67.519 1.00 20.91 664 N SER A 767 22.469 -1.275 67.885 1.00 20.91 665 CA SER A 767 22.271 -2.340 66.899 1.00 18.59 666 C SER A 767 22.793 -3.660 67.473 1.00 24.76 667 O SER A 767 22.130 -4.692 67.406 1.00 19.96		661	CZ	ARG	Α	766	21.239	4.908	68.742		
663 NH2 ARG A 760 21.000 0.112 0.91 664 N SER A 767 22.469 -1.275 67.885 1.00 20.91 665 CA SER A 767 22.271 -2.340 66.899 1.00 18.59 666 C SER A 767 22.793 -3.660 67.473 1.00 24.76 667 O SER A 767 22.130 -4.692 67.406 1.00 19.96		662	NH1	ARG	Α	766	21.909	5.442	69.754	1.00	22.73
664 N SER A 767 22.271 -2.340 66.899 1.00 18.59 666 C SER A 767 22.793 -3.660 67.473 1.00 24.76 667 O SER A 767 22.130 -4.692 67.406 1.00 19.96	50	663	NH2	ARG	A	766	21.380	5.412	67.519	1.00	
55 CA SER A 767 22.793 -3.660 67.473 1.00 24.76 666 C SER A 767 22.130 -4.692 67.406 1.00 19.96		664	N	SER	Α	767	22.469	-1.275		1.00	
55 667 O SER A 767 22.130 -4.692 67.406 1.00 19.96		665	CA	SER	A	767	22.271	-2.340		 	
667 O SER A 767 22.130 -4.692 67.406 1.00 19.96	55	666	С	SER	Α	767	22.793	-3.660		+	
668 CB SER A 767 23.002 -1.975 65.607 1.00 19.66	50	667	0	SER	Α	767	22.130	-4.692	 		
		668	СВ	SER	A	767	23.002	-1.975	65.607	1.00	19.66

		THREE	-DIMENSION	NAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PG	i	
	АТОМ	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	669	OG	SER	Α	767	22.444	-0.786	65.077	1.00	23.01
	670	N	TYR	Α	768	23.977	-3.595	68.067	1.00	20.64
	671	CA	TYR	Α	768	24.604	-4.752	68.710	1.00	21.51
10	672	С	TYR	Α	768	23.708	-5.300	69.831	1.00	20.49
	673	0	TYR	Α	768	23.339	-6.481	69.841	1.00	20.85
	674	СВ	TYR	4	768	25.963	-4.291	69.260	1.00	20.88
45	675	CG	TYR	4	768	26.629	-5.164	70.298	1.00	24.41
15	676	CD1	TYR	Α	768	26.882	-6.520	70.072	1.00	24.71
	677	CD2	TYR	Α	768	27.126	-4.590	71.463	1.00	22.00
	678	CE1	TYR	Α	768	27.642	-7.273	70.993	1.00	21.58
20	679	CE2	TYR	Α	768	27.872	-5.325	72.370	1.00	21.74
	680	CZ	TYR	Α	768	28.137	-6.656	72.125	1.00	24.16
	681	ОН	TYR	Α	768	28.969	-7.309	73.000	1.00	22.86
25	682	N	LYS	Α	769	23.313	-4.427	70.751	1.00	19.61
23	683	CA	LYS	Α	769	22.500	-4.833	71.899	1.00	20.88
	684	С	LYS	Α	769	21.090	-5.323	71.636	1.00	25.83
	685	0	LYS	Α	769	20.661	-6.320	72.222	1.00	23.20
30	686	СВ	LYS	Α	769	22.402	-3.682	72.904	1.00	26.26
	687	CG	LYS	Α	769	23.682	-3.356	73.623	1.00	29.74
	688	CD	LYS	Α	769	23.998	-4.345	74.756	1.00	34.33
35	689	CE	LYS	Α	769	23.010	-4.251	75.914	1.00	31.35
	690	NZ	LYS	Α	769	23.424	-5.118	77.078	1.00	27.64
	691	N	HIS	_A	770	20.372	-4.627	70.762	1.00	20.34
	692	CA	HIS	Α	770	18.968	-4.935	70.496	1.00	25.32
40	693	С	HIS	Α	770	18.652	-5.887	69.353	1.00	24.30
	694	0	HIS	Α	770	17.631	-6.572	69.382	1.00	23.64
	695	СВ	HIS	Α	770	18.204	-3.622	70.246	1.00	25.43
45	696	CG	HIS	Α	770	18.239	-2.672	71.397	1.00	32.32
	697	ND1	HIS	Α	770	17.517	-2.879	72.554	1.00	34.84
	698	CD2	HIS	Α	770	18.920	-1.516	71.581	1.00	28.95
]	699	CE1	HIS	Α	770	17.751	-1.889	73.398	1.00	36.65
50	700	NE2	HIS	Α	770	18.598	-1.049	72.833	1.00	35.04
	701	N	VAL	A	771	19.509	-5.934	68.341	1.00	24.39
	702	CA	VAL	Α	771	19.231	-6.795	67.202	1.00	25.76
55	703	С	VAL	Α	771	20.441	-7.614	66.787	1.00	24.92
ļ	704	0	VAL	Α	771	20.568	-8.008	65.639	1.00	27.56
l	705	СВ	VAL	Α	771	18.687	-5.952	65.995	1.00	27.85

TABLE 10 (continued)

ı		TUDES	-DIMENSION			ES OF PF		X WITH PG		
	47014	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
	ATOM		VAL	A	771	17.295	-5.404	66.320	1.00	29.87
	706	CG1	VAL	A	771	19.606	-4.767	65.718	1.00	28.77
	707	CG2		A	772	21.324	-7.883	67.745	1.00	22.68
	708	N	SER	A	772	22.532	-8.669	67.495	1.00	24.24
	709	CA	SER	A	772	23.352	-8.197	66.311	1.00	22.19
	710	С	SER SER	A	772	24.033	-8.994	65.653	1.00	24.35
	711	0		A	772	22.167	-10.153	67.332	1.00	22.79
	712	CB	SER	A	772	21.539	-10.582	68.518	1.00	24.02
	713	OG	SER	A	773	23.299	-6.886	66.062	1.00	20.76
	714	N	GLY		773	24.066	-6.290	64.982	1.00	21.80
	715	CA	GLY	A	773	23.555	-6.616	63.595	1.00	20.80
	716		GLY	A	773	24.199	-6.274	62.604	1.00	25.34
	717	ļ	GLY	A	774	22.386	-7.234	63.518	1.00	23.07
	718	N	GLN	A	774	21.845	-7.632	62.226	1.00	23.42
5	719	CA	GLN	A	├	20.901	-6.638	61.538	1.00	25.60
•	720	С	GLN	A	774	20.414	-6.906	60.440	1.00	23.56
	721	0	GLN	<u>^</u>	774	21.174	-9.000	62.365	1.00	25.32
	722	СВ	GLN	A	774	22.103	-10.032	62.943	1.00	24.41
0	723	CG	GLN	A	774	23.443	-10.066	62.236	1.00	34.16
	724	CD	GLN	A	774	23.514	-10.285	61.030	1.00	40.94
	725	OE1	GLN	A	774		-9.844	62.987	1.00	33.82
15	726	NE2	GLN	_ A	774	24.517	-5.513	62.190	1.00	21.96
3	727	N	MET	A	775	20.625	-4.447	61.603	1.00	22.20
	728	CA	MET	A	775	19.805	 	62.206	1.00	24.08
	729	С	MET	_ A	775	20.398		63.188	1.00	21.84
10	730	0	MET	_ A	775	21.132	+	62.011	1.00	23.95
	731	СВ	MET	_ A	775	18.332		61.531	1.00	28.07
	732	CG	MET	_ A	775	17.635		61.844	1.00	37.34
45	733	SD	MET	A	775	15.873	 	61.263	1.00	37.0
45	734	CE	MET	_ A	775		 -	61.612	1.00	21.7
	735	N	LEU	A	776	 			1.00	22.2
	736	CA	LEU	A	776			62.158	1.00	
50	737	С	LEU	A				63.016	1.00	+
	738	0	LEU	A		+		62.520	1.00	+
	739	СВ	LEU	A	776			61.039	-	+
55	740	CG	LEU	A	776			60.223	1.00	+
55	741	CD1	LEU	А	776			59.184	1.00	
	742	CD2	LEU	Α	776	23.42	9 -0.534	61.159	1.00	23.4

		THREE	-DIMENSION	NAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG	i	
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	743	N	TYR	Α	777	19.733	-0.180	64.322	1.00	20.52
	744	CA	TYR	A	777	18.755	0.303	65.278	1.00	17.48
	745	С	TYR	Α	777	18.967	1.804	65.547	1.00	21.46
10	746	0	TYR	Α	777	19.525	2.184	66.565	1.00	18.14
	747	СВ	TYR	A	777	18.902	-0.521	66.566	1.00	20.38
	748	G	TYR	A	777	17.768	-0.416	67.572	1.00	22.57
	749	CD1	TYR	A	777	17.608	0.717	68.373	1.00	22.04
15	750	CD2	TYR	A	777	16.877	-1.474	67.748	1.00	25.77
	751	CE1	TYR	Α	777	16.580	0.782	69.335	1.00	22.56
	752	CE2	TYR	A	777	15.859	-1.421	68.693	1.00	25.86
20	753	CZ	TYR	A	777	15.716	-0.299	69.485	1.00	23.25
	754	ОН	TYR	Α	777	14.721	-0.279	70.440	1.00	24.58
	755	N	PHE	Α	778	18.527	2.649	64.616	1.00	20.19
25	756	CA	PHE	Α	778	18.677	4.091	64.796	1.00	22.33
25	757	С	PHE	Α	778	17.888	4.572	66.019	1.00	19.77
	758	0	PHE	Α	778	18.369	5.373	66.817	1.00	20.69
	759	СВ	PHE	Α	778	18.233	4.843	63.526	1.00	17.81
30	760	CG	PHE	Α	778	19.170	4.685	62.380	1.00	19.78
	761	CD1	PHE	Α	778	19.038	3.633	61.485	1.00	26.89
	762	CD2	PHE	Α	778	20.230	5.569	62.211	1.00	21.49
35	763	CE1	PHE	Α	778	19.963	3.474	60.432	1.00	24.89
	764	CE2	PHE	Α	778	21.151	5.413	61.168	1.00	21.92
	765	CZ	PHE	Α	778	21.016	4.366	60.277	1.00	25.29
	766	N	ALA	Α	779	16.672	4.079	66.169	1.00	18.84
40	767	CA	ALA	Α	779	15.836	4.438	67.307	1.00	18.94
	768	С	ALA	Α	779	14.808	3.318	67.390	1.00	23.24
	769	0	ALA	Α	779	14.714	2.503	66.471	1.00	21.88
45	770	СВ	ALA	Α	779	15.151	5.785	67.063	1.00	19.00
	771	N	PRO	Α	780	14.074	3.224	68.501	1.00	24.08
	772	CA	PRO	Α	780	13.061	2.176	68.645	1.00	22.75
	773	С	PRO	A	780	11.985	2.260	67.551	1.00	31.17
50	774	0	PRO	Α	780	11.405	1.242	67.163	1.00	27.19
	775	СВ	PRO	Α	780	12.506	2.451	70.039	1.00	23.42
	776	CG	PRO	Α	780	13.723	3.011	70.760	1.00	29.68
55	777	CD	PRO	Α	780	14.122	4.036	69.731	1.00	19.66
	778	N	ASP	Α	781	11.728	3.465	67.045	1.00	24.25
	779	CA	ASP	Α	781	10.722	3.643	65.995	1.00	30.35

TABLE 10 (continued)

	THRE	E-DIMENSIO	VAL C	OORDIN	ATES OF I	PR IN COMPI	EX WITH PO	3	
ATOM	ATOM TYPE	RESIDUE	#	X	Υ	Z	occ	В	ATO
780	С	ASP	Α	781	11.345	3.803	64.608	1.00	28.4
781	0	ASP	Α	781	10.666	4.154	63.631	1.00	31.5
782	СВ	ASP	Α	781	9.856	4.854	66.328	1.00	33.0
783	CG	ASP	Α	781	10.648	6.149	66.354	1.00	42.6
784	OD1	ASP	Α	781	11.799	6.152	66.847	1.00	37.3
785	OD2	ASP	Α	781	10.105	7.175	65.899	1.00	39.6
786	N	LEU	Α	782	12.640	3.528	64.518	1.00	25.4
787	CA	LEU	Α	782	13.352	3.654	63.264	1.00	23.6
788	С	LEU	Α	782	14.483	2.619	63.221	1.00	25.2
789	0	LEU	Α	782	15.635	2.899	63.548	1.00	21.6
790	СВ	LEU	Α	782	13.907	5.072	63.134	1.00	25.8
791	CG	LEU	Α	782	14.296	5.483	61.718	1.00	26.4
792	CD1	LEU	Α	782	13.086	5.260	60.823	1.00	37.2
793	CD2	LEU	Α	782	14.693	6.947	61.682	1.00	23.2
794	N	ILE	Α	783	14.117	1.401	62.844	1.00	20.0
795	CA	ILE	Α	783	15.048	0.298	62.742	1.00	21.8
796	С	ILE	Α	783	15.144	-0.054	61.258	1.00	26.3
797	0	ILE	Α	783	14.125	-0.343	60.640	1.00	27.1
798	СВ	ILE	Α	783	14.500	-0.924	63.496	1.00	19.8
799	CG1	ILE	Α	783	14.240	-0.558	64.957	1.00	23.9
800	CG2	ILE	Α	783	15.491	-2.086	63.374	1.00	26.6
801	CD1	ILE	Α	783	13.358	-1.543	65.718	1.00	22.6
802	N	LEU	Α	784	16.346	-0.041	60.690	1.00	24.0
803	CA	LEU	Α	784	16.496	-0.369	59.277	1.00	30.3
804	С	LEU	Α	784	17.146	-1.717	58.979	1.00	28.2
805	0	LEU	Α	784	18.156	-2.095	59.583	1.00	27.3
806	СВ	LEU	Α	784	17.296	0.715	58.547	1.00	27.7
807	CG	LEU	Α	784	16.753	2.148	58.588	1.00	33.9
808	CD1	LEU	Α	784	17.619	3.030	57.678	1.00	30.6
809	CD2	LEU	Α	784	15.306	2.182	58.142	1.00	33.3
810	N	ASN	Α	785	16.545	-2.421	58.022	1.00	37.8
811	CA	ASN	Α	785	17.041	-3.708	57.537	1.00	34.2
812	С	ASN	Α	785	17.310	-3.491	56.050	1.00	40.43
813	0	ASN	Α	785	16.947	-2.442	55.492	1.00	32.8
814	СВ	ASN	Α	785	15.998	-4.814	57.720	1.00	43.78
815	CG	ASN	Α	785	14.679	-4.482	57.058	1.00	39.05
816	OD1	ASN	Α	785	14.644	-4.013	55.922	1.00	56.25

		THREE	-DIMENSION	IAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG	i	
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	817	ND2	ASN	A	785	13.584	-4.740	57.758	1.00	55.74
	818	Ν	GLU	Α	786	17.945	-4.475	55.419	1.00	37.34
	819	CA	GLU	Α	786	18.290	-4.406	54.001	1.00	41.84
10	820	C	GLU	Α	786	17.137	-3.983	53.103	1.00	36.02
	821	0	GLU	Α	786	17.332	-3.187	52.190	1.00	37.52
	822	СВ	GLU	A	786	18.829	-5.753	53.508	1.00	43.26
	823	CG	GLU	A	786	20.141	-6.218	54.140	1.00	53.06
15	824	CD	GLU	A	786	19.987	-6.714	55.569	1.00	52.18
	825	OE1	GLU	A	786	18.877	-6.622	56.135	1.00	55.65
	826	OE2	GLU	Α	786	20.990	-7.206	56.128	1.00	59.59
20	827	N	GLN	A	787	15.945	-4.515	53.360	1.00	37.37
	828	CA	GLN	Α	787	14.757	-4.194	52.563	1.00	41.31
	829	С	GLN	Α	787	14.403	-2.705	52.523	1.00	44.67
25	830	0	GLN	Α	787	13.863	-2.214	51.529	1.00	39.36
23	831	СВ	GLN	Α	787	13.541	-4.954	53.094	1.00	39.63
	832	CG	GLN	Α	787	13.659	-6.470	53.044	1.00	54.67
	833	CD	GLN	Α	787	12.516	-7.161	53.765	1.00	54.04
30	834	OE1	GLN	Α	787	11.359	-7.095	53.343	1.00	65.04
	835	NE2	GLN	Α	787	12.835	-7.819	54.871	1.00	58.37
	836	N	ARG	Α	788	14.709	-1.989	53.600	1.00	42.38
35	837	CA	ARG	Α	788	14.379	-0.570	53.680	1.00	46.01
	838	С	ARG	Α	788	15.474	0.355	53.157	1.00	44.06
	839	0	ARG	Α	788	15.307	1.576	53.123	1.00	43.28
	840	СВ	ARG	Α	788	14.020	-0.219	55.129	1.00	45.62
40	841	CG	ARG	Α	788	12.956	-1.149	55.694	1.00	51.99
	842	CD	ARG	Α	788	12.554	-0.827	57.121	1.00	54.00
	843	NE	ARG	Α	788	11.834	0.440	57.238	1.00	62.20
45	844	CZ	ARG	Α	788	11.303	0.893	58.372	1.00	62.82
	845	NH1	ARG	Α	788	11.411	0.184	59.490	1.00	63.08
	846	NH2	ARG	Α	788	10.659	2.052	58.391	1.00	64.33
	847	N	MET	Α	789	16.589	-0.226	52.738	1.00	42.60
50	848	CA	MET	Α	789	17.690	0.563	52.207	1.00	44.82
	849	С	MET	Α	789	17.687	0.382	50.697	1.00	44.81
	850	0	MET	Α	789	18.545	-0.303	50.143	1.00	41.79
55	851	СВ	MET	Α	789	19.013	0.072	52.791	1.00	47.11
	852	CG	MET	Α	789	19.047	0.097	54.307	1.00	38.54
	853	SD	MET	Α	789	20.519	-0.711	54.954	1.00	40.15

TABLE 10 (continued)

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	THREE	E-DIMENSION	VAL CC	ORDIN	ATES OF F	R IN COMPL	EX WITH PO	à	
ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATO
854	CE	MET	Α	789	20.192	-0.603	56.713	1.00	40.
855	N	LYS	Α	790	16.706	0.990	50.040	1.00	45.
856	CA	LYS	Α	790	16.575	0.879	48.591	1.00	49.
857	С	LYS	Α	790	17.686	1.632	47.883	1.00	52.
858	0	LYS	Α	790	18.423	1.065	47.073	1.00	56.
859	СВ	LYS	Α	790	15.225	1.435	48.148	1.00	52.
860	CG	LYS	Α	790	14.047	0.799	48.844	1.00	50.
861	CD	LYS	Α	790	12.752	1.440	48.405	1.00	55.
862	CE	LYS	Α	790	11.583	0.875	49.176	1.00	54.
863	NZ	LYS	Α	790	10.334	1.600	48.845	1.00	57.
864	N	GLU	Α	791	17.782	2.920	48.194	1.00	54.
865	CA	GLU	Α	791	18.780	3.817	47.621	1.00	54.
866	С	GLU	Α	791	20.162	3.174	47.656	1.00	52.
867	0	GLU	Α	791	20.689	2.887	48.728	1.00	52.
868	СВ	GLU	Α	791	18.792	5.116	48.427	1.00	61.
869	CG	GLU	Α	791	19.609	6.246	47.844	1.00	67.
870	CD	GLU	Α	791	19.632	7.444	48.769	1.00	74.
871	OE1	GLU	Α	791	18.547	7.856	49.241	1.00	78.
872	OE2	GLU	Α	791	20.733	7.979	49.017	1.00	77.
873	N	SER	Α	792	20.755	2.947	46.490	1.00	47.
874	CA	SER	Α	792	22.074	2.326	46.439	1.00	47.
875	С	SER	Α	792	23.177	3.113	47.168	1.00	45.
876	0	SER	Α	792	24.041	2.507	47.813	1.00	41.
877	СВ	SER	Α	792	22.475	2.064	44.979	1.00	47.
878	OG	SER	Α	792	22.355	3.235	44.193	1.00	54.
879	N	SER	Α	793	23.153	4.448	47.077	1.00	41.
880	CA	SER	Α	793	24.175	5.262	47.746	1.00	34.
881	С	SER	Α	793	24.018	5.190	49.268	1.00	33.
882	0	SER	Α	793	25.009	5.091	49.988	1.00	30.
883	СВ	SER	Α	793	24.100	6.728	47.289	1.00	36.4
884	OG	SER	Α	793	22.859	7.318	47.626	1.00	41.0
885	N	PHE	Α	794	22.774	5.227	49.739	1.00	32.0
886	CA	PHE	Α	794	22.492	5.165	51.170	1.00	35.
887	С	PHE	Α	794	22.762	3.762	51.725	1.00	35.
888	0	PHE	Α	794	23.256	3.613	52.839	1.00	33.
889	СВ	PHE	Α	794	21.044	5.564	51.447	1.00	42.0
890	CG	PHE	Α	794	20.716	5.627	52.906	1.00	46.2

		THREE	E-DIMENSION			(continue		EX WITH PO	<u> </u>	
	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	АТОМ
5	891	CD1	PHE	 A	794	21.441	6.457	53.751	1.00	47.24
	892	CD2	PHE	A	794	19.714	4.832	53.442	1.00	50.84
	893	CE1	PHE	A	794	21.176	6.495	55.118	1.00	52.49
10	894	CE2	PHE	A	794	19.441	4.862	54.805	1.00	52.13
10	895	CZ	PHE	A	794	20.177	5.696	55.643	1.00	44.92
	896	N	TYR	A	795	22.435	2.738	50.942	1.00	31.90
	897	CA	TYR	A	795	22.687	1.355	51.356	1.00	28.99
15	898	С	TYR	A	795	24.184	1.203	51.510	1.00	25.10
	899	0	TYR	A	795	24.671	0.609	52.465	1.00	29.55
	900	СВ	TYR	A	795	22.183	0.378	50.287	1.00	37.34
20	901	CG	TYR	Α	795	22.478	-1.079	50.578	1.00	40.29
20	902	CD1	TYR	Α	795	21.891	-1.730	51.666	1.00	40.54
	903	CD2	TYR	A	795	23.331	-1.810	49.753	1.00	42.80
	904	CE1	TYR	A	795	22.145	-3.068	51.923	1.00	42.21
25	905	CE2	TYR	A	795	23.592	-3.154	50.001	1.00	45.44
	906	CZ	TYR	Α	795	22.992	-3.779	51.087	1.00	44.14
	907	ОН	TYR	Α	795	23.225	-5.116	51.323	1.00	48.25
30	908	N	SER	Α	796	24.937	1.757	50.571	1.00	24.54
	909	CA	SER	Α	796	26.373	1.631	50.665	1.00	25.44
	910	С	SER	A	796	26.866	2.323	51.932	1.00	28.08
	911	0	SER	Α	796	27.807	1.855	52.569	1.00	31.55
35	912	СВ	SER	Α	796	27.053	. 2.239	49.439	1.00	32.47
	913	OG	SER	Α	796	28.460	2.133	49.564	1.00	43.41
	914	N	LEU	Α	797	26.239	3.438	52.295	1.00	25.12
40	915	CA	LEU	Α	797	26.665	4.141	53.503	1.00	25.95
	916	С	LEU	Α	797	26.302	3.314	54.736	1.00	27.16
	917	0	LEU	Α	797	27.044	3.292	55.716	1.00	29.13
45	918	СВ	LEU	Α	797	26.010	5.520	53.603	1.00	32.01
43	919	CG	LEU	Α	797	26.631	6.398	54.704	1.00	30.49
	920	CD1	LEU	Α	797	28.039	6.772	54.291	1.00	36.98
	921	CD2	LEU	Α	797	25.822	7.646	54.917	1.00	32.88
50	922	N	CYS	Α	798	25.152	2.650	54.695	1.00	26.93
	923	CA	CYS	Α	798	24.736	1.811	55.810	1.00	28.14
	924	С	CYS	Α	798	25.681	0.634	56.017	1.00	24.65
55	925	0	CYS	Α	798	25.953	0.253	57.157	1.00	25.73
	926	СВ	CYS	Α	798	23.306	1.308	55.607	1.00	24.73
	927	SG	CYS	Α	798	22.054	2.594	55.812	1.00	32.75

TABLE 10 (continued)

		TUDEE	-DIMENSION			ES OF PF		X WITH PG		
	47014	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
5	ATOM	N	LEU	A	799	26.181	0.054	54.925	1.00	25.25
	928	CA	LEU	A	799	27.124	-1.059	55.034	1.00	26.29
	929		LEU	A	799	28.387	-0.603	55.732	1.00	27.01
	930	С	LEU	A	799	29.047	-1.374	56.441	1.00	27.73
10	931	O	LEU	A	799	27.492	-1.602	53.654	1.00	28.72
	932	CB	LEU	A	799	26.395	-2.303	52.861	1.00	35.76
	933	CD1	LEU	A	799	26.980	-2.774	51.524	1.00	38.62
15	934		LEU	A	799	25.859	-3.485	53.660	1.00	34.72
	935	CD2 N	THR	A	800	28.743	0.655	55.501	1.00	28.68
	936	 	THR	A	800	29.918	1.242	56.125	1.00	27.55
	937	CA	THR	A	800	29.636	1.394	57.612	1.00	20.19
20	938	C	THR	A	800	30.487	1.090	58.447	1.00	28.87
	939	O	THR	A	800	30.222	2.620	55.503	1.00	37.30
	940	CB OG1	THR	A	800	30.660	2.421	54.153	1.00	34.67
25	941		THR	A	800	31.290	3.374	56.302	1.00	32.14
	942	CG2	MET	A	801	28.442	1.871	57.935	1.00	20.28
	943	N CA	MET	A	801	28.063	2.042	59.333	1.00	23.80
	944	CA	MET	A	801	27.990	0.679	60.017	1.00	25.24
30	945	0	MET	A	801	28.380	0.535	61.173	1.00	23.42
	946	СВ	MET	A	801	26.705	2.750	59.439	1.00	23.19
	947	CG	MET	A	801	26.745	4.207	58.953	1.00	25.74
35	948	SD	MET	A	801	25.204	5.075	59.342	1.00	29.64
	949	CE	MET	A	801	24.118	4.431	58.116	1.00	40.66
	950	N N	TRP	A	802	27.512	-0.318	59.280	1.00	27.17
	951		TRP	A	802	27.352	-1.674	59.804	1.00	27.11
40	952	CA	TRP	A	802	28.642	-2.297	60.328	1.00	28.77
	953	0	TRP	A	802	28.617	-3.235	61.132	1.00	26.96
	954	СВ	TRP	A	802	26.764	-2.588	58.733	1.00	27.64
45	955		TRP	A	802	25.504	-3.273	59.178	1.00	29.69
	956		TRP	A	802	25.309	-3.977	60.341	1.00	24.6
	957		TRP	A	802		-3.308	58.475	1.00	27.6
E0	958		TRP	A	802	24.019	-4.441	60.398	1.00	31.3
50	959		TRP	A	802	23.352	-4.047	59.268	1.00	31.0
	960		TRP	A	802	23.822	-2.785	57.248	1.00	37.2
	961	070	TRP	A	802		-4.278	58.874	1.00	31.4
55	962		TRP	A	+	 	3 -3.012	56.855	1.00	25.6
	963		TRP	A		+	2 -3.754	57.670	1.00	33.8
	964	0112								

		THREE	E-DIMENSION	NAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PG	ì	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	965	N	GLN	Α	803	29.772	-1.775	59.870	1.00	27.01
	966	CA	GLN	Α	803	31.066	-2.280	60.304	1.00	29.15
	967	C	GLN	Α	803	31.242	-2.199	61.810	1.00	27.44
10	968	0	GLN	Α	803	31.895	-3.052	62.408	1.00	26.00
	969	СВ	GLN	Α	803	32.190	-1.492	59.648	1.00	27.84
	970	CG	GLN	A	803	32.293	-1.680	58.156	1.00	27.53
15	971	CD	GLN	Α	803	33.392	-0.813	57.564	1.00	37.98
15	972	OE1	GLN	4	803	33.273	0.414	57.508	1.00	41.49
	973	NE2	GLN	Α	803	34.477	-1.446	57.145	1.00	37.86
	974	N	ILE	Α	804	30.683	-1.163	62.424	1.00	23.42
20	975	CA	ILE	Α	804	30.825	-1.016	63.861	1.00	25.19
	976	С	ILE	Α	804	30.106	-2.116	64.658	1.00	22.21
	977	0	ILE	Α	804	30.737	-2.795	65.467	1.00	28.86
25	978	СВ	ILE	Α	804	30.353	0.379	64.330	1.00	25.31
25	979	CG1	ILE	Α	804	31.085	1.467	63.531	1.00	27.19
	980	CG2	ILE	Α	804	30.639	0.537	65.826	1.00	29.31
	981	CD1	ILE	Α	804	30.774	2.893	63.988	1.00	29.28
30	982	N	PRO	Α	805	28.790	-2.309	64.455	1.00	22.89
	983	CA	PRO	Α	805	28.092	-3.366	65.211	1.00	26.67
	984	С	PRO	Α	805	28.769	-4.716	64.986	1.00	25.60
35	985	0	PRO	Α	805	28.815	-5.568	65.879	1.00	25.13
	986	СВ	PRO	Α	805	26.686	-3.353	64.602	1.00	22.17
	987	CG	PRO	Α	805	26.531	-1.937	64.165	1.00	33.89
	988	CD	PRO	Α	805	27.852	-1.659	63.522	1.00	25.28
40	989	N	GLN	Α	806	29.287	-4.903	63.773	1.00	29.12
	990	CA	GLN	Α	806	29.971	-6.144	63.416	1.00	28.65
	991	С	GLN	Α	806	31.202	-6.364	64.259	1.00	30.22
45	992	0	GLN	Α	806	31.441	-7.478	64.714	1.00	28.51
	993	СВ	GLN	Α	806	30.348	-6.156	61.928	1.00	33.89
	994	CG	GLN	Α	806	29.136	-6.069	61.024	1.00	40.04
į	995	CD	GLN	Α	806	28.130	-7.161	61.297	1.00	51.23
50	996	OE1	GLN	Α	806	27.651	-7.316	62.425	1.00	56.13
	997	NE2	GLN	Α	806	27.787	-7.923	60.260	1.00	58.14
	998	N	GLU	Α	807	31.986	-5.312	64.477	1.00	25.11
55	999	CA	GLU	Α	807	33.174	-5.446	65.299	1.00	25.25
	1000	С	GLU	Α	807	32.775	-5.606	66.742	1.00	21.49
ł	1001	0	GLU	Α	807	33.476	-6.286	67.484	1.00	25.66

TABLE 10 (continued)

			-DIMENSION	TAL	DRUNAT	CONTINUED)	IN COMPLE	X WITH PG		
				#	X	Y	Z	occ	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	-# A	807	34.120	-4.249	65.122	1.00	28.40
i	1002	СВ	GLU		807	34.779	-4.252	63.762	1.00	41.59
	1003	CG	GLU	A	807	35.673	-5.480	63.565	1.00	49.95
	1004	CD	GLU	A	807	36.146	-6.046	64.576	1.00	44.78
0	1005	OE1	GLU	A	807	35.920	-5.871	62.401	1.00	51 .07
	1006	OE2	GLU	A	808	31.651	-4.992	67.131	1.00	24.33
	1007	N	PHE	A	808	31.143	-5.090	68.500	1.00	26.06
5	1008	CA	PHE	A	808	30.783	-6.533	68.780	1.00	26.07
5	1009	С	PHE	A	808	31.086	-7.052	69.845	1.00	22.03
	1010	0	PHE	A .	808	29.905	-4.197	68.722	1.00	22.64
	1011	СВ	PHE	A		30.241	-2.741	68.942	1.00	21.70
20	1012	CG	PHE	A .	808	31.554	-2.306	68.890	1.00	24.72
	1013	CD1	PHE	A	808	29.239	-1.814	69.223	1.00	24.00
	1014	CD2	PHE	A	808	31.881	-0.961	69.116	1.00	28.45
05	1015	CE1	PHE	A	808	29.546	-0.471	69.451	1.00	23.16
25	1016	CE2	PHE	A	808	 	-0.045	69.398	1.00	26.38
	1017	CZ	PHE	A	808	30.872	-7.176	67.806	1.00	26.08
	1018	N	VAL	A	809	30.146	-8.588	67.937	1.00	24.64
30	1019	CA	VAL	A_	809	29.762	-9.470	67.997	1.00	26.29
	1020	С	VAL	A	809	31.002	-10.337	68.866	1.00	28.56
	1021	0	VAL	_ A	809	31.119	-9.023	66.744	1.00	28.11
25	1022	СВ	VAL	_ A	809	28.893		66.691	1.00	30.55
35	1023	CG1	VAL	A	809	28.782	-10.541	66.877	1.00	29.17
	1024	CG2	VAL	_ A	809	27.514	-8.415	67.074	1.00	22.16
	1025	N	LYS	_ A	810	31.934	-9.242	66.997	1.00	28.14
40	1026	CA	LYS	A	810		+	68.275	1.00	
	1027	С	LYS	_ A	810	+		68.823	1.00	
	1028	0	LYS	_ A	810			65.785	1.00	+
	1029	СВ	LYS	A	810			65.433	1.00	
45	1030	CG	LYS	_ A				64.256	1.00	
	1031	CD	LYS	A			+	63.053	1.00	
	1032	CE	LYS	_ A	810			_+	1.00	
50	1033	3 NZ	LYS	A	810			61.916	1.00	
	103	4 N	LEU	A	811			68.758	1.00	
	103	5 CA	LEU	A	811			69.962	1.00	
	103	6 C	LEU	Α	811			71.271	1.00	
55	103	7 0	LEU	Α	811			72.344	1.00	
	103	8 CB	LEU	Α.	81	1 35.613	3 -7.086	69.942	1.0	30.00

		THREE	E-DIMENSION	NAL CC	ORDINA	TES OF F	R IN COMPL	EX WITH PG	ì	
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	1039	CG	LEU	Α	811	36.682	-6.756	68.897	·1.00	36.08
	1040	CD1	LEU	Α	811	37.157	-5.327	69.075	1.00	28.22
	1041	CD2	LEU	Α	811	37.849	-7.707	69.059	1.00	33.46
10	1042	N	GLN	Α	812	32.901	-8.734	71.184	1.00	24.63
	1043	CA	GLN	Α	812	32.052	-8.840	72.366	1.00	24.29
	1044	С	GLN	Α	812	32.351	-7.707	73.363	1.00	28.28
	1045	0	GLN	A	812	32.608	-7.935	74.553	1.00	26.02
15	1046	СВ	GLN	A	812	32.202	-10.214	73.030	1.00	31.81
	1047	CG	GLN	Α	812	31.752	-11.335	72.115	1.00	34.45
	1048	CD	GLN	Α	812	31.604	-12.687	72.810	1.00	43.12
20	1049	OE1	GLN	A	812	31.282	-13.693	72.162	1.00	48.46
	1050	NE2	GLN	A	812	31.825	-12.720	74.117	1.00	38.30
	1051	N	VAL	Α	813	32.314	-6.479	72.851	1.00	23.00
25	1052	CA	VAL	Α	813	32.547	-5.274	73.659	1.00	23.27
2.5	1053	С	VAL	Α	813	31.539	-5.173	74.804	1.00	20.62
	1054	0	VAL	Α	813	30.342	-5.422	74.631	1.00	24.25
	1055	СВ	VAL	Α	813	32.452	-4.002	72.776	1.00	22.34
30	1056	CG1	VAL	Α	813	32.527	-2.735	73.626	1.00	22.21
	1057	CG2	VAL	Α	813	33.564	-4.017	71.777	1.00	20.16
	1058	N	SER	Α	814	32.033	-4.814	75.984	1.00	21.62
35	1059	CA	SER	Α	814	31.168	-4.708	77.141	1.00	22.92
	1060	С	SER	Α	814	30.636	-3.294	77.308	1.00	21.08
	1061	0	SER	Α	814	31.191	-2.345	76.763	1.00	22.56
	1062	СВ	SER	Α	814	31.931	-5.094	78.406	1.00	23.84
40	1063	OG	SER	Α	814	32.977	-4.161	78.643	1.00	27.14
	1064	N	GLN	Α	815	29.549	-3.174	78.057	1.00	22.79
	1065	CA	GLN	Α	815	28.938	-1.882	78.332	1.00	26.53
45	1066	С	GLN	Α	815	29.995	-0.959	78.945	1.00	24.03
	1067	0	GLN	Α	815	30.083	0.209	78.590	1.00	23.00
	1068	СВ	GLN	Α	815	27.757	-2.077	79.304	1.00	26.89
	1069	CG	GLN	Α	815	27.053	-0.812	79.802	1.00	37.27
50	1070	CD	GLN	A	815	26.399	-0.002	78.700	1.00	46.40
	1071	OE1	GLN	A	815	27.072	0.686	77.927	1.00	49.69
	1072	NE2	GLN	Α	815	25.073	-0.085	78.618	1.00	48.97
55	1073	N	GLU	Α	816	30.806	-1.498	79.853	1.00	24.42
	1074	CA	GLU	Α	816	31.844	-0.706	80.527	1.00	24.69
L	1075	C	GLU	Α	816	32.909	-0.216	79.555	1.00	21.73

TABLE 10 (continued)

		THREE	-DIMENSION	NAL CC	ORDINA	ATES OF P	R IN COMPL	EX WITH PG	1	
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	1076	0	GLU	Α	816	33.384	0.908	79.674	1.00	23.19
	1077	СВ	GLU	Α	816	32.522	-1.517	81.634	1.00	27.58
	1078	CG	GLU	A	816	31.621	-2.014	82.759	1.00	32.90
10	1079	CD	GLU	A	816	30.595	-3.052	82.308	1.00	38.95
	1080	OE1	GLU	Α	816	30.910	-3.887	81.435	1.00	36.30
	1081	OE2	GLU	Α	816	29.475	-3.052	82.861	1.00	49.03
4.5	1082	N	GLU	Α	817	33.307	-1.066	78.606	1.00	21.48
15	1083	CA	GLU	Α	817	34.301	-0.666	77.613	1.00	20.83
	1084	С	GLU	Α	817	33.701	0.360	76.660	1.00	20.85
	1085	0	GLU	Α	817	34.348	1.329	76.299	1.00	23.00
20	1086	СВ	GLU	Α	817	34.778	-1.867	76.791	1.00	22.67
	1087	CG	GLU	Α	817	35.660	-2.868	77.560	1.00	25.39
	1088	CD	GLU	Α	817	35.826	-4.193	76.820	1.00	33.69
or.	1089	OE1	GLU	Α	817	34.971	-4.524	75.961	1.00	30.03
25	1090	OE2	GLU	Α	817	36.801	-4.917	77.103	1.00	30.51
	1091	N	PHE	Α	818	32.469	0.119	76.224	1.00	21.31
	1092	CA	PHE	Α	818	31.805	1.043	75.304	1.00	22.08
30	1093	С	PHE	Α	818	31.696	2.467	75.884	1.00	21.29
	1094	0	PHE	Α	818	31.920	3.460	75.180	1.00	20.03
	1095	СВ	PHE	Α	818	30.406	0.528	75.002	1.00	23.06
35	1096	CG	PHE	Α	818	29.513	1.549	74.373	1.00	22.01
33	1097	CD1	PHE	Α	818	29.678	1.914	73.040	1.00	22.32
	1098	CD2	PHE	Α	818	28.514	2.156	75.124	1.00	23.62
	1099	CE1	PHE	Α	818	28.852	2.869	72.467	1.00	27.65
40	1100	CE2	PHE	Α	818	27.681	3.116	74.558	1.00	28.88
	1101	CZ	PHE	Α	818	27.852	3.471	73.231	1.00	22.16
	1102	N	LEU	Α	819	31.323	2.556	77.154	1.00	21.31
45	1103	CA	LEU	Α	819	31.164	3.857	77.812	1.00	23.49
	1104	С	LEU	Α	819	32.445	4.699	77.808	1.00	26.91
	1105	0	LEU	Α	819	32.394	5.907	77.557	1.00	20.81
	1106	СВ	LEU	Α	819	30.640	3.655	79.238	1.00	24.50
50	1107	CG	LEU	Α	819	29.199	3.116	79.294	1.00	23.57
	1108	CD1	LEU	Α	819	28.780	2.812	80.728	1.00	22.54
	1109	CD2	LEU	Α	819	28.256	4.174	78.693	1.00	27.51
55	1110	N	CYS	Α	820	33.586	4.068	78.087	1.00	22.87
	1111	CA	CYS	Α	820	34.870	4.761	78.087	1.00	26.80
l	1112	С	CYS	Α	820	35.306	5.082	76.656	1.00	25.96

		THREE	-DIMENSION	IAL CC	ORDINA	TES OF F	R IN COMPL	EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	1113	0	CYS	Α	820	35.858	6.149	76.379	1.00	20.10
1	1114	СВ	CYS	Α	820	35.940	3.895	78.748	1.00	27.46
	1115	SG	CYS	Α	820	35.550	3.486	80.454	1.00	33.20
10	1116	N	MET	Α	821	35.079	4.151	75.739	1.00	18.27
	1117	CA	MET	A	821	35.456	4.420	74.371	1.00	20.73
	1118	С	MET	A	821	34.661	5.603	73.811	1.00	18.21
45	1119	0	MET	Α	821	35.186	6.383	73.031	1.00	20.04
15	1120	СВ	MET	A	821	35.238	3.178	73.520	1.00	23.28
	1121	CG	MET	A	821	36.100	2.003	73.934	1.00	26.12
	1122	SD	MET	Α	821	35.578	0.506	73.031	1.00	30.71
20	1123	CE	MET	Α	821	36.127	0.928	71.492	1.00	17.04
	1124	N	LYS	Α	822	33.403	5.748	74.210	1.00	22.26
	1125	CA	LYS	Α	822	32.595	6.856	73.684	1.00	21.99
25	1126	C	LYS	Α	822	33.157	8.208	74.120	1.00	23.71
23	1127	0	LYS	Α	822	33.125	9.182	73.359	1.00	20.06
	1128	СВ	LYS	Α	822	31.123	6.713	74.115	1.00	24.02
	1129	CG	LYS	Α	822	30.164	7.608	73.337	1.00	31.07
30	1130	CD	LYS	Α	822	28.727	7.077	73.410	1.00	38.28
	1131	CE	LYS	Α	822	28.155	7.091	74.822	1.00	39.48
	1132	NZ	LYS	Α	822	27.958	8.479	75.331	1.00	42.42
35	1133	N	VAL	Α	823	33.686	8.269	75.339	1.00	20.18
-	1134	CA	VAL	Α	823	34.272	9.515	75.815	1.00	19.22
	1135	С	VAL	Α	823	35.541	9.802	75.028	1.00	21.84
	1136	0	VAL	Α	823	35.806	10.939	74.644	1.00	21.05
40	1137	СВ	VAL	Α	823	34.643	9.439	77.304	1.00	19.35
	1138	CG1	VAL	Α	823	35.288	10.747	77.725	1.00	18.41
	1139	CG2	VAL	Α	823	33.400	9.182	78.141	1.00	23.25
45	1140	N	LEU	Α	824	36.333	8.766	74.780	1.00	19.81
	1141	CA	LEU	Α	824	37.561	8.950	74.019	1.00	20.73
	1142	С	LEU	Α	824	37.252	9.452	72.614	1.00	24.51
	1143	0	LEU	Α	824	38.054	10.173	72.021	1.00	21.96
50	1144	СВ	LEU	Α	824	38.371	7.644	73.976	1.00	21.13
	1145	CG	LEU	Α	824	38.943	7.289	75.355	1.00	20.69
	1146	CD1	LEU	Α	824	39.580	5.921	75.310	1.00	23.72
55	1147	CD2	LEU	Α	824	39.978	8.354	75.784	1.00	21.59
	1148	N	LEU	Α	825	36.087	9.098	72.080	1.00	22.43
	1149	CA	LEU	Α	825	35.712	9.582	70.758	1.00	24.57

TABLE 10 (continued)

		THREE	-DIMENSION	VAL CO	ORDIN	ATES OF F	PR IN COMPL	EX WITH PO		
_	АТОМ	ATOM TYPE	RESIDUE	#	Х	Y	Z	осс	В	ATOM
5	1150	С	LEU	Α	825	35.421	11.068	70.793	1.00	22.02
	1151	0	LEU	Α	825	35.737	11.773	69.845	1.00	23.56
	1152	СВ	LEU	Α	825	34.480	8.868	70.206	1.00	19.15
10	1153	CG	LEU	Α	825	34.643	7.542	69.500	1.00	31.93
	1154	CD1	LEU	Α	825	33.284	7.197	68.894	1.00	28.38
	1155	CD2	LEU	Α	825	35.718	7.644	68.395	1.00	26.52
45	1156	N	LEU	Α	826	34.802	11.529	71.875	1.00	18.07
15	1157	CA	LEU	Α	826	34.507	12.948	72.046	1.00	20.16
	1158	С	LEU	Α	826	35.819	13.741	72.040	1.00	23.85
	1159	0	LEU	Α	826	35.886	14.882	71.572	1.00	23.95
20	1160	СВ	LEU	Α	826	33.805	13.171	73.384	1.00	21.07
	1161	CG	LEU	A	826	33.603	14.620	73.851	1.00	22.15
	1162	CD1	LEU	A	826	32.731	15.381	72.850	1.00	21.62
25	1163	CD2	LEU	Α	826	32.966	14.629	75.234	1.00	22.53
23	1164	N	LEU	Α	827	36.863	13.114	72.565	1.00	16.99
	1165	CA	LEU	Α	827	38.168	13.734	72.693	1.00	21.87
	1166	С	LEU	Α	827	39.134	13.226	71.637	1.00	24.10
30	1167	. 0	LEU	Α	827	40.340	13.255	71.860	1.00	24.64
	1168	СВ	LEU	Α	827	38.737	13.389	74.081	1.00	20.22
i	1169	CG	LEU	Α	827	37.804	13.622	75.273	1.00	27.92
35	1170	CD1	LEU	Α	827	38.451	13.115	76.571	1.00	24.44
	1171	CD2	LEU	Α	827	37.471	15.111	75.381	1.00	21.00
	1172	N	ASN	Α	828	38.638	12.797	70.477	1.00	21.55
	1173	CA	ASN	Α	828	39.547	12.205	69.492	1.00	26.34
40	1174	С	ASN	A	828	40.068	13.073	68.343	1.00	21.48
]	1175	0	ASN	Α	828	40.831	12.604	67.501	1.00	25.22
]	1176	СВ	ASN	Α	828	38.896	10.940	68.938	1.00	24.75
45	1177	CG	ASN	Α	828	39.862	9.775	68.868	1.00	39.47
	1178	OD1	ASN	Α	828	40.751	9.655	69.711	1.00	33.27
	1179	ND2	ASN	Α	828	39.676	8.891	67.881	1.00	37.42
	1180	N	THR	Α	829	39.675	14.336	68.330	1.00	20.94
50	1181	CA	THR	A	829	40.088	15.263	67.283	1.00	23.18
	1182	С	THR	Α	829	40.174	16.653	67.881	1.00	24.51
	1183	0	THR	Α	829	39.279	17.062	68.623	1.00	20.61
55	1184	СВ	THR	Α	829	39.047	15.287	66.125	1.00	27.14
-	1185	OG1	THR	Α	829	38.876	13.963	65.609	1.00	27.76
Ĺ	1186	CG2	THR	Α	829	39.512	16.196	64.987	1.00	27.52

		THREE	-DIMENSION	NAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PG	i	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	1187	N	ILE	Α	830	41.255	17.368	67.578	1.00	23.20
	1188	CA	ILE	Α	830	41.416	18.736	68.072	1.00	22.29
	1189	С	ILE	Α	830	41.876	19.651	66.939	1.00	23.93
10	1190	0	ILE	Α	830	42.271	19.176	65.874	1.00	23.93
	1191	СВ	ILE	A	830	42.428	18.799	69.226	1.00	24.86
	1192	CG1	ILE	Α	830	43.805	18.332	68.744	1.00	22.58
	1193	CG2	ILE	Α	830	41.914	17.962	70.402	1.00	25.47
15	1194	CD1	ILE	Α	830	44.856	18.368	69.827	1.00	28.86
	1195	N	PRO	Α	831	41.818	20.971	67.150	1.00	23.63
	1196	CA	PRO	A	831	42.240	21.919	66.117	1.00	26.05
20	1197	C	PRO	Α	831	43.727	21.796	65.831	1.00	30.91
	1198	0	PRO	A	831	44.496	21.316	66.673	1.00	27.25
	1199	СВ	PRO	Α	831	41.888	23.277	66.732	1.00	28.62
25	1200	CG	PRO	A	831	40.752	22.925	67.707	1.00	25.78
25	1201	CD	PRO	Α	831	41.368	21.704	68.341	1.00	28.72
	1202	N	LEU	A	832	44.126	22.225	64.636	1.00	31.80
	1203	CA	LEU	Α	832	45.528	22.180	64.238	1.00	34.58
30	1204	С	LEU	A	832	46.404	22.954	65.216	1.00	32.37
	1205	0	LEU	Α	832	47.558	22.591	65.444	1.00	38.50
	1206	СВ	LEU	A	832	45.699	22.760	62.827	1.00	34.68
35	1207	CG	LEU	Α	832	45.108	21.920	61.691	1.00	34.02
55	1208	CD1	LEU	Α	832	45.298	22.624	60.342	1.00	34.39
	1209	CD2	LEU	Α	832	45.787	20.563	61.686	1.00	36.07
	1210	N	GLU	Α	833	45.853	24.012	65.798	1.00	33.46
40	1211	CA	GLU	Α	833	46.605	24.817	66.751	1.00	35.43
	1212	С	GLU	Α	833	46.379	24.348	68.188	1.00	37.02
	1213	0	GLU	Α	833	46.866	24.959	69.143	1.00	34.87
45	1214	СВ	GLU	Α	833	46.239	26.304	66.611	1.00	40.38
	1215	CG	GLU	Α	833	44.786	26.683	66.901	1.00	46.00
	1216	CD	GLU	Α	833	43.802	26.239	65.825	1.00	52.16
	1217	OE1	GLU	Α	833	44.211	25.549	64.867	1.00	49.08
50	1218	OE2	GLU	Α	833	42.607	26.589	65.943	1.00	50.96
Ì	1219	N	GLY	Α	834	45.650	23.249	68.344	1.00	32.49
	1220	CA	GLY	Α	834	45.392	22.741	69.675	1.00	28.49
55	1221	С	GLY	Α	834	44.231	23.479	70.312	1.00	30.77
	1222	0	GLY	Α	834	43.649	24.372	69.705	1.00	29.05
ĺ	1223	N	LEU	Α	835	43.908	23.102	71.544	1.00	27.80

TABLE 10 (continued)

				TAE	3LE 10	(cont	inuea)	IN COMPLE	x WITH PG		
		THREE	-DIMENSION			AIES	, T	Z	осс	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	#	X		010	23.691	72.297	1.00	31.88
5	1224	CA	LEU	Α	835			24.754	73.267	1.00	30.49
	1225	С	LEU	Α	835	╁		24.737	73.647	1.00	28.71
	1226	0	LEU	A	835		491	22.595	73.102	1.00	28.43
10	1227	СВ	LEU	Α	835	+	119	21.461	72.335	1.00	31.10
	1228	CG	LEU	A	835	4	.438	20.363	73.310	1.00	29.92
	1229	CD1	LEU	A	835		.071	21.995	71.598	1.00	27.76
	1230	CD2	LEU	A	835		.200	25.659	73.685	1.00	33.09
15	1231	N	ARG	A	836		.446	26.695	74.644	1.00	33.34
	1232	CA	ARG	A	836		2.839		75.973	1.00	37.41
	1233	С	ARG	A	836	_+	3.209	26.019	76.662	1.00	35.58
20	1234	0	ARG	A	836		4.155	26.427	74.872	1.00	37.62
20	1235	СВ	ARG	Α	836	4	1.683	27.673		1.00	43.12
	1236	CG	ARG	Α	836	4	1.129	28.268	73.591	1.00	
	1237	CD	ARG	Α	836	4	0.175	29.438	73.840	1.00	
25	1238	NE	ARG	Α	836	3 4	0.858	30.690	74.181	1.00	
	1239	CZ	ARG	Α	836	3 4	1.461	30.952	75.339	+	+
	1240	NH1	ARG	Α	836	6 4	1.467	30.059	76.319	1.00	
	1241		ARG	A	836	6 4	12.048	32.127	75.525	1.00	+
30	1242		SER	A	83	7 4	12.439	24.994	76.337	1.00	
	1243		SER	A	83	7 4	42.672	24.234	77.557	1.00	-
	1240		SER	A	83	7	43.364	22.924	77.192	1.00	-
35	1245	<u> </u>	SER	A	83	37	42.910	21.851	77.576	1.0	
	<u> </u>	20	SER		83	37	41.339	23.933	78.249	1.0	
	1246		SER	1	83	37	40.660	25.131	78.575	1.0	
	124		GLN	-	¥ 83	38	44.467	23.007	76.452	1.0	
40	124		GLN		A 8:	38	45.162	21.796	76.031	1.0	
	124		GLN		A 8	38	45.642	20.947	77.207	1.0	
	125		GLN		A 8	38	45.503	19.730	77.190	1.0	
45	125	<u> </u>	GLN			38	46.341	22.154	75.125	1.0	
	125		GLN		+_	38	46.954	20.986	74.371	1.0	00 32.23
	125		GLN		+-	338	45.976	6 20.338	73.401	1.	00 37.10
	125		GLN			338	45.19	9 21.021	72.730	1.	00 37.6
50	12		GLN			838	46.02	8 19.017	73.306	1.	.00 42.9
	12					839	46.22	4 21.578	78.224	1	.00 27.8
	12	57 N	THE	+		839	46.68		79.385	, 1	.00 30.2
55	12	58 CA	THE			839	45.57	20.046	80.054	1	.00 27.7
-	12	59 C	THE			839	45.72		7 80.322	2 1	.00 28.5
	12	.60 O	THE		<u> </u>						

		THREE	-DIMENSION	IAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PG	i	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	1261	СВ	THR	Α	839	47.298	21.744	80.436	1.00	31.84
	1262	OG1	THR	Α	839	48.408	22.426	79.857	1.00	38.66
	1263	CG2	THR	Α	839	47.766	20.939	81.643	1.00	35.08
10	1264	N	GLN	Α	840	44.466	20.725	80.337	1.00	27.40
	1265	CA	GLN	Α	840	43.314	20.095	80.964	1.00	27.76
	1266	С	GLN	Α	840	42.790	18.986	80.059	1.00	27.08
	1267	0	GLN	Α	840	42.382	17.926	80.534	1.00	24.43
15	1268	СВ	GLN	Α	840	42.199	21.106	81.205	1.00	29.57
	1269	CG	GLN	Α	840	42.471	22.127	82.286	1.00	46.45
	1270	CD	GLN	Α	840	41.237	22.957	82.640	1.00	53.97
20	1271	OE1	GLN	Α	840	40.747	23.754	81.829	1.00	56.14
	1272	NE2	GLN	Α	840	40.723	22.763	83.852	1.00	51.09
	1273	N	PHE	Α	841	42.821	19.235	78.757	1.00	25.08
25	1274	CA	PHE	Α	841	42.343	18.247	77.788	1.00	25.20
25	1275	C	PHE	Α	841	43.192	16.985	77.814	1.00	22.17
·	1276	0	PHE	Α	841	42.661	15.871	77.804	1.00	24.69
	1277	СВ	PHE	Α	841	42.312	18.858	76.381	1.00	24.39
30	1278	CG	PHE	Α	841	42.136	17.846	75.275	1.00	25.18
	1279	CD1	PHĘ	Α	841	40.857	17.414	74.898	1.00	26.95
	1280	CD2	PHE	Α	841	43.243	17.288	74.642	1.00	21.90
35	1281	CE1	PHE	Α	841	40.690	16.435	73.898	1.00	22.61
	1282	CE2	PHE	Α	841	43.092	16.309	73.645	1.00	21.56
	1283	CZ	PHE	Α	841	41.813	15.880	73.274	1.00	23.75
	1284	N	GLU	Α	842	44.506	17.155	77.855	1.00	26.80
40	1285	CA	GLU	Α	842	45.423	16.012	77.905	1.00	30.80
	1286	С	GLU	Α	842	45.156	15.160	79.144	1.00	27.28
	1287	0	GLU	Α	842	45.093	13.933	79.073	1.00	27.77
45	1288	СВ	GLU	Α	842	46.879	16.489	77.963	1.00	28.70
	1289	CG	GLU	Α	842	47.746	15.961	76.851	1.00	50.83
	1290	CD	GLU	Α	842	47.567	16.720	75.552	1.00	54.53
	1291	OE1	GLU	Α	842	48.053	17.872	75.456	1.00	61.42
50	1292	OE2	GLU	Α	842	46.940	16.166	74.626	1.00	61.75
	1293	N	GLU	Α	843	45.039	15.820	80.289	1.00	29.50
	1294	CA	GLU	Α	843	44.776	15.123	81.539	1.00	27.52
55	1295	С	GLU	Α	843	43.439	14.385	81.472	1.00	29.29
	1296	0	GLU	Α	843	43.311	13.263	81.942	1.00	29.26
	1297	СВ	GLU	Α	843	44.767	16.110	82.713	1.00	32.59

TABLE 10 (continued)

					TA	BLE	10 (0	contir	iuea)	N CC	MPLE	WITH	PG			
Γ		TH	REE-DIM	ENSION	AL CC	ORI	TANIC	ES O	FPRI	Z		OCC		В	AT	ОМ
}	ATOM	ATOM TY		SIDUE	#		<u> </u>	Y		16.59		83.160		1.00	38	.26
,	1298	CG	(GLU	Α	 		46.1	-+-	17.67		84.235	-+	1.00	47	.34
t	1299	CD		GLU	Α	4-	43	46.0		17.5		85.144	-+	1.00	51	.54
t	1300	OE1		GLU	Α	┼	43	45.2		18.6		84.187	,	1.00	49	.88
	1301	OE2		GLU	Α	+-	43	46.8		15.0		80.878	+	1.00	25	5.95
10	1302	N		MET	A	+-	344	42.4		14.3		80.78		1.00	26	3.70
	1303	CA		MET	Α	+-	344	41.		13.1		79.92		1.00	2	6.41
	1304	С		MET	A		B44	41.		12.0		80.31	4	1.00	2	5.61
15	1305	0		MET	A		844		770	15.3		80.20		1.00	2	6.67
	1306	СВ		MET	A	\bot	844		128		761	80.11		1.00) 3	0.25
	1307	CG		MET	A	\perp	844	├ ──	737		952	79.60		1.00) 2	28.34
00	1308	SD		MET	A		844		.486		840	79.4		1.00	5 2	23.92
20	1309	CE		MET	A		844	+-	.074		.264	78.7		1.0	0 :	26.84
	1310	N		ARG	A	\perp	845		.860		.140	77.8		1.0	0	29.65
	1311			ARG	1	\perp	845		2.001		.140	78.5		1.0	0	31.46
25	1312			ARG	1	1	845	-	2.753	 		78.4		1.0	10	28.49
	1313			ARG		1	845		2.335	-	9.831	76.5		1.0	00	29.38
	1314		3	ARG		A	845		2.700		2.616 1.649		433	1.0	00	38.40
30	131		3	ARG		A	845		2.609		2.303	4	132	1.	00	33.58
30	131		D	ARG		A	845		3.039	+	2.303 1.361		.022	1.	00	43.23
	131		E	ARG		Α	845		2.924	+	0.357		.807	1.	00	45.03
	131		Z	ARG		Α	845		13.763	+	0.337		.610	1	.00	58.21
35	131		H1	ARG		Α	845		44.806	+-	9.545		.772	1	.00	52.78
	132		H2	ARG		Α	845		43.578		11.284		.241	1	.00	29.00
	132		N	SER		Α	846		43.844	-	10.243	<u> </u>	9.935	1	.00	29.23
40	13		CA	SER		Α	84	6	44.60	-	9.537	_	1.004	+	.00	25.05
40	 	23	С	SER		Α	84	6	43.77		8.328		1.179		1.00	27.74
	ļ	24	0	SER		Α	84	6	43.88		10.840		0.567		1.00	29.17
			CB	SER		Α	84	+	45.86	-		-+-	9.550		1.00	35.25
45	ļ	326	OG	SER		Α	84		46.74		11.267		1.727		1.00	27.46
	 	327	N	SEF	}	Α		47	42.96	-+	9.736		32.769		1.00	26.94
		328	CA	SEF	3	Α		47	42.11	+	8.736		32.170		1.00	28.69
50		329	С	SEF	3	Α		47	41.1	-+	7.692		82.75		1.00	24.0
J.	├	330	0	SEI	R	A		47	40.8	-+	10.84		83.48		1.00	33.2
		331	СВ	SE	R	A		347	41.3	-+	11.70		84.15		1.00	39.5
	ļ	1332	OG	SE	R	A		347	42.2		9.05		81.00		1.00	23.6
55	<u> </u>	1333	N	TY	R	A		848	40.5		9.05 8.14		80.36		1.00	24.4
	<u> </u>	1334	CA	TY	R	1		848	39.6	048	0.14					

		THREE	-DIMENSION	IAL CC	ORDINA	TES OF F	R IN COMPL	EX WITH PG	i	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	1335	С	TYR	Α	848	40.336	6.957	79.707	1.00	25.10
	1336	0	TYR	Α	848	39.747	5.888	79.586	1.00	24.91
	1337	СВ	TYR	Α	848	38.762	8.913	79.402	1.00	22.98
10	1338	CG	TYR	Α	848	37.683	9.651	80.152	1.00	21.21
	1339	CD1	TYR	Α	848	36.543	8.975	80.595	1.00	21.26
	1340	CD2	TYR	Α	848	37.816	11.003	80.459	1.00	21.12
45	1341	CE1	TYR	Α	848	35.551	9.624	81.324	1.00	22.44
15	1342	CE2	TYR	Α	848	36.828	11.665	81.191	1.00	23.86
	1343	CZ	TYR	Α	848	35.693	10.968	81.619	1.00	28.65
	1344	ОН	TYR	Α	848	34.686	11.611	82.319	1.00	23.47
20	1345	N	ILE	Α	849	41.581	7.133	79.289	1.00	23.21
	1346	CA	ILE	Α	849	42.314	6.019	78.714	1.00	29.14
	1347	С	ILE	Α	849	42.566	5.060	79.879	1.00	30.21
25	1348	0	ILE	Α	849	42.446	3.846	79.744	1.00	26.87
20	1349	СВ	ILE	Α	849	43.654	6.488	78.069	1.00	29.35
	1350	CG1	ILE	Α	849	43.356	7.281	76.790	1.00	23.92
	1351	CG2	ILE	Α	849	44.547	5.291	77.729	1.00	27.00
30	1352	CD1	ILE	Α	849	44.583	7.816	76.109	1.00	22.76
	1353	N	ARG	Α	850	42.889	5.608	81.043	1.00	28.71
	1354	CA	ARG	Α	850	43.113	4.753	82.195	1.00	32.10
35	1355	С	ARG	Α	850	41.816	4.078	82.611	1.00	29.94
	1356	0	ARG	Α	850	41.824	2.959	83.107	1.00	28.11
	1357	СВ	ARG	Α	850	43.672	5.538	83.387	1.00	35.86
	1358	CG	ARG	Α	850	45.100	6.028	83.221	1.00	40.68
40	1359	CD	ARG	Α	850	45.662	6.509	84.558	1.00	46.12
	1360	NE	ARG	Α	850	44.999	7.702	85.079	1.00	48.88
	1361	CZ	ARG	Α	850	45.160	8.924	84.581	1.00	47.54
45	1362	NH1	ARG	Α	850	45.964	9.121	83.546	1.00	47.38
,	1363	NH2	ARG	Α	850	44.515	9.952	85.115	1.00	52.75
	1364	N	GLU	Α	851	40.691	4.750	82.408	1.00	26.26
	1365	CA	GLU	Α	851	39.428	4.149	82.798	1.00	24.07
50	1366	С	GLU	Α	851	39.058	3.010	81.843	1.00	25.19
	1367	0	GLU	Α	851	38.480	2.005	82.269	1.00	27.72
	1368	СВ	GLU	Α	851	38.325	5.209	82.851	1.00	29.75
55	1369	CG	GLU	Α	851	37.158	4.816	83.735	1.00	32.34
	1370	CD	GLU	Α	851	37.559	4.663	85.207	1.00	48.72
Į	1371	OE1	GLU	Α	851	38.709	5.013	85.558	1.00	47.00

TABLE 10 (continued)

		TUDEE	-DIMENSION			(continued)		X WITH PG		
	47014		RESIDUE	#	X	Υ	Z	occ	В	ATOM
5	ATOM	ATOM TYPE	GLU	- " A	851	36.723	4.202	86.018	1.00	46.97
	1372	OE2	LEU	A	852	39.390	3.158	80.562	1.00	23.97
	1373	N	LEU		852	39.127	2.104	79.584	1.00	22.66
	1374	CA		A	852	39.945	0.872	79.992	1.00	30.81
10	1375	С	LEU	A	852	39.490	-0.260	79.844	1.00	24.16
	1376	0	LEU	A	852	39.572	2.547	78.186	1.00	22.80
	1377	СВ	LEU		852	39.595	1.452	77.115	1.00	25.24
15	1378	CG	LEU	A	852	38.196	0.939	76.908	1.00	25.51
,,,	1379	CD1	LEU	A		40.186	1.996	75.801	1.00	27.39
	1380	CD2	LEU	A	852	41.167	1.096	80.474	1.00	24.04
	1381	N	ILE	A	853	 	-0.021	80.897	1.00	29.31
20	1382	CA	ILE	A	853	42.008	-0.764	82.035	1.00	28.39
	1383	С	ILE	A _	853	41.328	-1.994	82.025	1.00	28.22
	1384	0	ILE	A .	853	41.275	0.461	81.316	1.00	32.13
25	1385	СВ	ILE	A	853	43.418	0.481	80.077	1.00	26.53
20	1386	CG1	ILE	A	853	44.150		81.980	1.00	26.27
	1387	CG2	ILE	<u>^</u> _	853	44.212	-0.686	80.364	1.00	29.29
	1388	CD1	ILE	A	853	45.496	1.620	82.999	1.00	29.91
30	1389	N	LYS	A	854	40.778	-0.025	84.121	1.00	27.78
	1390	CA	LYS	A	854	40.070	-0.645	83.616	1.00	28.75
	1391	С	LYS		854	38.861	-1.428	84.106	1.00	30.96
35	1392	0	LYS	_ A_	854	38.564	-2.515	 	1.00	32.36
33	1393	СВ	LYS	A	854	39.594	0.408	85.121	1.00	32.65
	1394	CG	LYS	_ A	854	40.695	1.151	85.839	1.00	41.08
	1395	CD	LYS	A	854	40.084	2.199	86.763	1.00	47.72
40	1396	CE	LYS	A	854	41.158	3.004	87.445		54.97
	1397	NZ	LYS	_ A	854	42.079	3.620	86.445	1.00	25.66
	1398	N	ALA	A	855	38.154	-0.875	82.634		26.89
45	1399	CA	ALA	A	855	36.981	-1.561	82.099	1.00	25.18
45	1400	С	ALA	_ A	855	37.422	-2.887	81.490	1.00	├
	1401	0	ALA	A	855	36.761	-3.914	81.667	1.00	24.74
	1402	СВ	ALA	A	855	36.292	-0.698	81.038	1.00	22.45
50	1403	N	ILE	A	856	38.543	-2.853	80.780	1.00	25.69
	1404	CA	ILE	A	856	39.079	-4.051	80.132	1.00	28.42
	1405	С	ILE	А	856	39.473	-5.061	81.212	1.00	32.00
EF.	1406	0	ILE	А	856	39.232	-6.258	81.066	1.00	33.59
55	1407	СВ	ILE	Α	856	40.297	-3.690	79.258	1.00	31.03
	1408	CG1	ILE	А	856	39.817	-2.913	78.024	1.00	25.53

		THREE	-DIMENSION	IAL CC	ORDINA	ATES OF F	PR IN COMPL	EX WITH PG	i	
	АТОМ	ATOM TYPE	RESIDUE	#	Х	Y	Z	осс	В	ATOM
5	1409	CG2	ILE	Α	856	41.066	-4.950	78.854	1.00	29.18
	1410	CD1	ILE	Α	856	40.940	-2.382	77.164	1.00	27.39
	1411	N	GLY	Α	857	40.060	-4.559	82.294	1.00	33.82
10	1412	CA	GLY	Α	857	40.475	-5.410	83.397	1.00	34.58
	1413	С	GLY	Α	857	39.345	-6.137	84.105	1.00	37.55
ı	1414	0	GLY	Α	857	39.566	-7.165	84.749	1.00	37.64
	1415	N	LEU	Α	858	38.129	-5.615	83.994	1.00	33.59
15	1416	CA	LEU	Α	858	36.981	-6.237	84.630	1.00	37.87
	1417	С	LEU	Α	858	36.730	-7.652	84.110	1.00	42.05
	1418	0	LEU	A	858	36.162	-8.482	84.816	1.00	37.32
20	1419	СВ	LEU	Α	858	35.723	-5.393	84.404	1.00	35.77
	1420	CG	LEU	Α	858	35.707	-3.981	84.980	1.00	34.70
	1421	CD1	LEU	Α	858	34.393	-3.311	84.614	1.00	39.67
25	1422	CD2	LEU	Α	858	35.873	-4.036	86.488	1.00	40.03
20	1423	N	ARG	Α	859	37.161	-7.921	82.880	1.00	42.57
	1424	CA	ARG	Α	859	36.947	-9.221	82.256	1.00	52.08
	1425	С	ARG	Α	859	38.188	-9.797	81.586	1.00	54.79
30	1426	0	ARG	Α	859	38.201	-10.972	81.215	1.00	58.54
	1427	СВ	ARG	Α	859	35.820	-9.121	81.226	1.00	52.12
	1428	CG	ARG	Α	859	34.472	-8.758	81.830	1.00	58.32
35	1429	CD	ARG	Α	859	33.381	-8.622	80.776	1.00	61.04
	1430	NE	ARG	Α	859	32.082	-8.385	81.399	1.00	72.95
	1431	CZ	ARG	Α	859	30.938	-8.230	80.737	1.00	76.45
	1432	NH1	ARG	Α	859	30.918	-8.279	79.411	1.00	80.87
40	1433	NH2	ARG	Α	859	29.810	-8.021	81.406	1.00	77.97
	1434	N	GLN	Α	860	39.222	-8.976	81.416	1.00	60.36
	1435	CA	GLN	Α	860	40.460	-9.442	80.800	1.00	65.05
45	1436	С	GLN	Α	860	41.558	-9.610	81.840	1.00	67.98
	1437	0	GLN	Α	860	42.356	-8.704	82.096	1.00	68.79
	1438	СВ	GLN	Α	860	40.910	-8.493	79.688	1.00	64.71
	1439	CG	GLN	Α	860	39.943	-8.453	78.519	1.00	68.26
50	1440	CD	GLN	Α	860	39.754	-9.810	77.861	1.00	71.18
	1441	OE1	GLN	Α	860	38.897	-9.980	76.991	1.00	72.78
	1442	NE2	GLN	Α	860	40.561	-10.784	78.268	1.00	72.46
55	1443	N	LYS	Α	861	41.560	-10.798	82.434	1.00	70.37
	1444	CA	LYS	A	861	42.507	-11.206	83.459	1.00	71.87
	1445	С	LYS	Α	861	43.962	-11.197	82.978	1.00	72.34

TABLE 10 (continued)

		THREE	-DIMENSION	AL CO	ORDINA	TES OF P	R IN COMPLI	EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
5	1446	0	LYS	Α	861	44.825	-10.575	83.603	1.00	71.39
	1447	СВ	LYS	Α	861	42.111	-12.604	83.946	1.00	74.09
	1448	CG	LYS	Α	861	41.860	-13.587	82.797	1.00	76.68
10	1449	CD	LYS	Α	861	41.293	-14.925	83.273	1.00	77.75
70	1450	CE	LYS	Α	861	40.977	-15.836	82.086	1.00	77.67
	1451	NZ	LYS	Α	861	40.368	-17.136	82.492	1.00	78.97
	1452	N	GLY	Α	862	44.230	-11.885	81.870	1.00	72.03
15	1453	CA	GLY	Α	862	45.583	-11.943	81.340	1.00	72.71
	1454	С	GLY	Α	862	46.226	-10.580	81.144	1.00	71.15
	1455	0	GLY	Α	862	45.589	-9.655	80.644	1.00	71.21
20	1456	N	VAL	Α	863	47.489	-10.452	81.535	1.00	70.79
	1457	CA	VAL	Α	863	48.212	-9.191	81.392	1.00	69.40
	1458	С	VAL	Α	863	48.467	-8.888	79.918	1.00	68.93
	1459	0	VAL	Α	863	48.543	-7.723	79.516	1.00	66.12
25	1460	СВ	VAL	Α	863	49.574	-9.234	82.125	1.00	71.43
	1461	CG1	VAL	Α	863	49.359	-9.445	83.617	1.00	70.39
	1462	CG2	VAL	А	863	50.441	-10.347	81.544	1.00	72.36
30	1463	N	VAL	Α	864	48.605	-9.943	79.120	1.00	65.17
	1464	CA	VAL	Α	864	48.848	-9.782	77.693	1.00	64.59
	1465	С	VAL	Α	864	47.511	-9.789	76.963	1.00	61.44
	1466	0	VAL	Α	864	47.331	-9.088	75.971	1.00	61.24
35	1467	СВ	VAL	Α	864	49.744	-10.916	77.139	1.00	65.52
	1468	CG1	VAL	Α	864	49.034	-12.258	77.263	1.00	67.34
	1469	CG2	VAL	Α	864	50.117	-10.624	75.691	1.00	65.68
40	1470	N	SER	Α	865	46.574	-10.588	77.464	1.00	58.29
	1471	CA	SER	Α	865	45.250	-10.666	76.868	1.00	52.84
	1472	С	SER	Α	865	44.584	-9.299	77.017	1.00	51.66
	1473	0	SER	Α	865	43.901	-8.825	76.109	1.00	45.86
45	1474	СВ	SER	Α	865	44.410	-11.733	77.572	1.00	55.37
	1475	OG	SER	Α	865	43.096	-11.778	77.043	1.00	56.88
	1476	N	SER	Α	866	44.798	-8.674	78.169	1.00	44.60
50	1477	CA	SER	Α	866	44.234	-7.361	78.442	1.00	45.64
	1478	С	SER	Α	866	44.961	-6:340	77.581	1.00	44.47
	1479	0	SER	Α	866	44.375	-5.360	77.123	1.00	39.29
EE	1480	СВ	SER	Α	866	44.417	-6.997	79.914	1.00	45.32
55	1481	OG	SER	Α	866	45.788	-6.829	80.218	1.00	48.12
	1482	N	SER	Α	867	46.247	-6.587	77.367	1.00	43.23

TABLE 10 (continued)

		THREE	E-DIMENSION	NAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PG	 ì	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	1483	CA	SER	Α	867	47.077	-5.707	76.565	1.00	42.20
	1484	С	SER	Α	867	46.642	-5.804	75.109	1.00	41.29
	1485	0	SER	Α	867	46.510	-4.791	74.420	1.00	42.13
10	1486	СВ	SER	Α	867	48.547	-6.107	76.706	1.00	43.71
	1487	OG	SER	A	867	49.383	-5.173	76.055	1.00	50.34
	1488	N	GLN	Α	868	46.420	-7.028	74.640	1.00	35.72
15	1489	CA	GLN	Α	868	45.982	-7.234	73.270	1.00	36.75
15	1490	С	GLN	Α	868	44.575	-6.663	73.101	1.00	31.61
	1491	0	GLN	Α	868	44.198	-6.218	72.017	1.00	34.73
	1492	СВ	GLN	Α	868	46.006	-8.727	72.927	1.00	41.06
20	1493	CG	GLN	Α	868	47.410	-9.332	73.045	1.00	51.40
	1494	CD	GLN	Α	868	47.458	-10.819	72.756	1.00	56.24
	1495	OE1	GLN	Α	868	47.151	-11.263	71.647	1.00	66.21
25	1496	NE2	GLN	Α	868	47.850	-11.603	73.756	1.00	61.83
23	1497	N	ARG	Α	869	43.815	-6.667	74.188	1.00	30.91
	1498	CA	ARG	Α	869	42.443	-6.153	74.193	1.00	33.76
	1499	С	ARG	Α	869	42.483	-4.639	74.028	1.00	29.74
30	1500	0	ARG	Α	869	41.703	-4.053	73.274	1.00	28.46
	1501	СВ	ARG ·	Α	869	41.781	-6.493	75.521	1.00	31.23
	1502	CG	ARG	Α	869	40.335	-6.051	75.662	1.00	40.84
35	1503	CD	ARG	Α	869	39.462	-6.760	74.664	1.00	36.78
	1504	NE	ARG	Α	869	38.039	-6.531	74.910	1.00	41.13
	1505	CZ	ARG	Α	869	37.079	-7.104	74.198	1.00	35.24
	1506	NH1	ARG	Α	869	37.410	-7.936	73.217	1.00	32.73
40	1507	NH2	ARG	Α	869	35.805	-6.857	74.464	1.00	33.12
	1508	N	PHE	Α	870	43.405	-4.017	74.748	1.00	27.87
	1509	CA	PHE	Α	870	43.561	-2.578	74.691	1.00	29.28
45	1510	С	PHE	Α	870	43.929	-2.212	73.268	1.00	30.03
	1511	0	PHE	Α	870	43.410	-1.244	72.707	1.00	29.75
	1512	СВ	PHE	Α	870	44.655	-2.123	75.644	1.00	30.24
	1513	CG	PHE	Α	870	44.801	-0.631	75.724	1.00	32.22
50	1514	CD1	PHE	Α	870	43.875	0.136	76.426	1.00	30.59
	1515	CD2	PHE	Α	870	45.859	0.008	75.089	1.00	33.43
	1516	CE1	PHE	Α	870	44.004	1.522	76.496	1.00	29.82
55	1517	CE2	PHE	Α	870	45.996	1.389	75.152	1.00	33.14
	1518	CZ	PHE	Α	870	45.064	2.149	75.859	1.00	28.67
[1519	N	TYR	Α	871	44.805	-3.010	72.667	1.00	28.46

TABLE 10 (continued)

				TA	BLE	10 (contir	nued)	N COMPLE	x WITH PO	 G		
Γ		THREE	E-DIMENSION	IAL CO	OORI	TANIC	ES C	FPRI	- Z	OCC	Тв	A ⁻	том
-	ATOM	ATOM TYPE	RESIDUE	#	'	<u> </u>	Y		Z 752	71.297	1.00	33	3.75
,	1520	CA	TYR	Α	8	71	45.2		-2.753	70.326	1.00	3	0.34
}	1521	С	TYR	Α	8	71	44.0		-2.815	69.466	1.00	+	1.44
-	1522	0	TYR	Α	8	71	43.9		-1.949	70.835	1.0		2.68
	1523	СВ	TYR	Α	8	71	46.2	286	-3.765	69.387	1.0		9.92
10	1524	CG	TYR	Α	8	371	46.6	885	-3.571	69.003	1.0		15.08
	1525	CD1	TYR	Α		371	47.		-2.519	68.390	1.0	-+-	45.67
	1526	CD2	TYR	A		871	-	182	-4.404	67.656	1.0		52.13
15	1527	CE1	TYR	Α		871		829	-2.297	67.042	1.0		51.47
	1528	CE2	TYR	A	\perp	871		488	-4.192	66.682	1.0		51.04
	1529	CZ	TYR	A		871	47	.310	-3.139	65.351	_+-	00	54.66
	1530	OH	TYR	A		871	47	.608	-2.930	70.465		00	27.62
20	1531	N	GLN	A		872	43	.238	-3.849			.00	28.60
	1532	CA	GLN	A		872	42	.087	-4.041	69.601		.00	30.83
	1533		GLN	1	1	872	41	.069	-2.908			.00	26.66
25	1534		GLN	7	4	872	40).583	-2.386	68.696		.00	34.35
	 		GLN	1	A	872	4	1.392	-5.355	69.940		.00	38.32
	1535		GLN		A	872	4	2.276	-6.586	69.790		1.00	43.83
	1536	OD	GLN		Α	872	4	1.536	-7.857	70.141		1.00	44.13
30	1537		GLN		A	872	4	1.009	-8.001	71.246			49.31
	1538	1150	GLN		A	872	4	1.492	-8.788	69.204		1.00	26.84
	1539		LEU		Α	873	3 4	10.744	-2.537	70.94		1.00	25.39
35	154		LEU	_	Α	873	3 :	39.768	-1.477	71.15		1.00	27.79
	154	<u>`</u>	LEU		Α	873	3	40.261	-0.121	70.66	5	1.00	27.73
	154		LEU		A	873	3	39.494	0.632	70.05	52	1.00	ļ
	154	GP.	LEU		Α	873	3	39.391	-1.399	72.64	12	1.00	24.65
40	154		LEI		A	87	3	38.754	-2.687	73.19	90	1.00	26.51
	154					87	3	38.334	4 -2.516	74.62	26	1.00	29.15
	154				A	87	3	37.56	5 -3.064	72.3	27	1.00	24.41
45	15		TH			87	74	41.52	8 0.19	5 70.9	20	1.00	26.19
	15	48 N				87	74	42.06	8 1.47	3 70.4	81	1.00	
	15	49 CA	TH			87	74	42.27	7 1.47	8 68.9	65	1.00	
	15	550 C	-		A		74	42.22	27 2.53	3 68.3	322	1.00	
50	15	551 0					74	43.38		37 71.2	234	1.00	
	15	552 CB			A		74	44.37		71.0	031	1.00	
	1	553 OG		IR IB	A	+-	74	43.11		55 72.	715	1.00	
55	1	554 CG		IR (C	A		 375	42.4		06 68.	377	1.0	
33	1	555 N		/S	A		375	42.6		49 66.	930	1.0	0 29.9
	1	556 C	A L	/S	^	`		L					

		THREE	-DIMENSION	NAL CC	ORDIN	ATES OF F	R IN COMPL	EX WITH PG	```	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	осс	В	ATOM
5	1557	С	LYS	Α	875	41.290	0.526	66.311	1.00	25.15
	1558	0	LYS	Α	875	41.184	1.171	65.284	1.00	30.87
	1559	СВ	LYS	Α	875	43.173	-1.135	66.495	1.00	32.66
10	1560	CG	LYS	Α	875	43.612	-1.210	65.033	1.00	41.23
	1561	CD	LYS	Α	875	44.781	-0.267	64.756	1.00	45.10
	1562	CE	LYS	Α	875	45.193	-0.300	63.295	1.00	45.88
	1563	NZ	LYS	Α	875	46.368	0.572	63.042	1.00	50.22
15	1564	N	LEU	Α	876	40.232	0.047	66.954	1.00	28.84
	1565	CA	LEU	Α	876	38.875	0.282	66.460	1.00	30.79
	1566	C	LEU	Α	876	38.587	1.794	66.451	1.00	31.46
20	1567	0	LEU	Α	876	38.047	2.329	65.479	1.00	28.53
	1568	СВ	LEU	Α	876	37.864	-0.458	67.333	1.00	29.92
	1569	CG	LEU	Α	876	36.369	-0.362	66.999	1.00	36.08
25	1570	CD1	LEU	A	876	35.623	-1.521	67.641	1.00	37.87
23	1571	CD2	LEU	Α	876	35.817	0.960	67.493	1.00	34.23
	1572	N	LEU	Α	877	38.960	2.481	67.525	1.00	26.83
	1573	CA	LEU	Α	877	38.750	3.926	67.590	1.00	32.06
30	1574	С	LEU	Α	877	39.517	4.622	66.465	1.00	31.54
	1575	0	LEU	Α	877	38.984	5.538	65.816	1.00	27.43
	1576	СВ	LEU	Α	877	39.191	4.472	68.950	1.00	28.40
35	1577	CG	LEU	Α	877	38.327	4.058	70.146	1.00	33.60
55	1578	CD1	LEU	Α	877	38.892	4.669	71.418	1.00	27.76
	1579	CD2	LEU	Α	877	36.880	4.525	69.941	1.00	36.94
	1580	N	ASP	Α	878	40.765	4.203	66.238	1.00	30.89
40	1581	CA	ASP	Α	878	41.568	4.782	65.157	1.00	31.45
	1582	С	ASP	Α	878	40.853	4.591	63.829	1.00	33.06
	1583	0	ASP	Α	878	40.771	5.522	63.026	1.00	27.21
45	1584	СВ	ASP	Α	878	42.946	4.113	65.033	1.00	32.85
	1585	CG	ASP	Α	878	43.925	4.541	66.118	1.00	41.09
	1586	OD1	ASP	Α	878	43.584	5.414	66.944	1.00	34.77
	1587	OD2	ASP	Α	878	45.055	3.994	66.134	1.00	35.56
50	1588	N	ASN	Α	879	40.356	3.377	63.588	1.00	23.23
ĺ	1589	CA	ASN	Α	879	39.665	3.101	62.334	1.00	29.88
	1590	С	ASN	Α	879	38.387	3.907	62.137	1.00	27.44
55	1591	0	ASN	Α	879	37.949	4.114	61.006	1.00	28.18
	1592	СВ	ASN	Α	879	39.367	1.600	62.197	1.00	30.74
	1593	CG	ASN	Α	879	40.637	0.764	62.168	1.00	34.40

TABLE 10 (continued)

	F	TUDEE	-DIMENSION			TES OF PF		X WITH PG		
	.=014		RESIDUE	#	X	Υ	Z	occ	В	ATOM
5	ATOM	ATOM TYPE	ASN	- <u>"</u> -	879	41.648	1.178	61.596	1.00	41.39
	1594	OD1	ASN	A	879	40.584	-0.423	62.760	1.00	42.87
	1595	ND2	LEU	A	880	37.796	4.383	63.226	1.00	27.04
	1596	N	LEU	A	880	36.576	5.177	63.100	1.00	28.38
10	1597	CA		A	880	36.792	6.459	62.283	1.00	29.38
	1598	С	LEU	A	880	35.886	6.927	61.585	1.00	26.74
	1599	0	LEU	A	880	36.018	5.508	64.484	1.00	27.75
15	1600	СВ	LEU	1 A	880	35.486	4.285	65.230	1.00	38.99
,,,	1601	CG	LEU	 	880	35.009	4.692	66.610	1.00	40.02
	1602	CD1	LEU	A	880	34.350	3.650	64.436	1.00	40.28
	1603	CD2	LEU	A	881	37.991	7.021	62.354	1.00	25.82
20	1604	N	HIS	A	881	38.286	8.241	61.605	1.00	26.55
	1605	CA	HIS	A	881	37.990	8.104	60.114	1.00	28.01
	1606	С	HIS	A	 	37.313	8.950	59.539	1.00	26.18
25	1607	0	HIS	A	881	39.749	8.666	61.806	1.00	27.98
25	1608	СВ	HIS	A	881	40.008	9.366	63.105	1.00	31.07
	1609	CG	HIS	A	881	40.008	8.916	64.026	1.00	34.25
	1610	ND1	HIS	A	881		10.509	63.619	1.00	25.45
30	1611	CD2	HIS	A	881	39.492	9.753	65.049	1.00	30.14
	1612	CE1	HIS	A	881	40.974	10.727	64.826	1.00	32.22
	1613	NE2	HIS	_ A	881	40.110	7.039	59.481	1.00	30.88
25	1614	N	ASP	A	882	38.468	 	58.049	1.00	33.37
35	1615	CA	ASP	_ A	882	38.218	6.873	57.802	1.00	32.18
	1616	С	ASP	A	882	36.746	6.575 7.037	56.819	1.00	28.61
	1617	0	ASP	_ A	882	36.169		57.472	1.00	41.89
40	1618	СВ	ASP	A	882	39.082	5.750	55.943	1.00	53.35
	1619	CG	ASP	A	882	39.088	+	55.336	1.00	57.38
	1620	OD1	ASP	A	882	+		55.346	1.00	62.05
15	1621	OD2	ASP	A	882			58.692	1.00	
45	1622	N	LEU	A	883			58.558	1.00	+
	1623	CA	LEU	A	883		 		1.00	+
	1624	С	LEU	A	883			58.623	1.00	+
50	1625	0	LEU	A	883		- 	57.764	1.00	+
	1626	СВ	LEU	A	883	- 		59.660	1.00	+
	1627	CG	LEU	A	883			59.636	1.00	
EF.	1628	CD1	LEU	_ A	883			60.621	1.00	
55	1629	CD2	LEU	A	-			59.983		
	1630) N	VAL	A	884	34.08	7.539	59.655	1.00	23.0

TABLE 10 (continued)

		THREE	-DIMENSION	NAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PG	ì	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	1631	CA	VAL	Α	884	33.314	8.771	59.837	1.00	25.27
	1632	С	VAL	Α	884	33.474	9.762	58.678	1.00	22.87
	1633	0	VAL	Α	884	32.551	10.522	58.359	1.00	21.03
10	1634	СВ	VAL	Α	884	33.715	9.458	61.162	1.00	28.67
	1635	CG1	VAL	Α	884	33.064	10.827	61.263	1.00	30.03
	1636	CG2	VAL	Α	884	33.274	8.588	62.338	1.00	28.50
45	1637	N	LYS	Α	885	34.642	9.757	58.055	1.00	23.37
15	1638	CA	LYS	Α	885	34.886	10.649	56.926	1.00	23.75
	1639	С	LYS	Α	885	33.895	10.401	55.788	1.00	24.31
	1640	0	LYS	Α	885	33.477	11.343	55.109	1.00	23.94
20	1641	СВ	LYS	Α	885	36.309	10.477	56.418	1.00	23.23
	1642	CG	LYS	Α	885	36.681	11.476	55.335	1.00	34.73
	1643	CD	LYS	A	885	38.164	11.383	54.997	1.00	40.32
25	1644	CE	LYS	A	885	38.563	12.449	53.990	1.00	45.17
25	1645	NZ	LYS	A	885	40.031	12.437	53.725	1.00	50.18
	1646	N	GLN	A	886	33.513	9.140	55.574	1.00	20.06
	1647	CA	GLN	Α	886	32.547	8.829	54.523	1.00	21.61
30	1648	С	GLN	Α	886	31.185	9.358	54.940	1.00	20.55
	1649	0	GLN	Α	886	30.423	9.843	54.104	1.00	21.72
	1650	СВ	GLN	Α	886	32.453	7.319	54.275	1.00	27.13
35	1651	CG	GLN	Α	886	33.795	6.688	54.059	1.00	32.13
	1652	CD	GLN	Α	886	33.718	5.402	53.291	1.00	45.67
	1653	OE1	GLN	Α	886	33.018	4.467	53.680	1.00	52.55
	1654	NE2	GLN	Α	886	34.453	5.337	52.185	1.00	51.53
40	1655	N	LEU	Α	887	30.859	9.241	56.226	1.00	18.60
	1656	CA	LEU	Α	887	29.591	9.768	56.707	1.00	19.89
	1657	С	LEU	Α	887	29.602	11.309	56.577	1.00	21.61
45	1658	0	LEU	Α	887	28.607	11.911	56.172	1.00	18.84
	1659	СВ	LEU	Α	887	29.363	9.362	58.163	1.00	24.80
ļ	1660	CG	LEU	Α	887	29.337	7.867	58.499	1.00	32.83
	1661	CD1	LEU	Α	887	28.908	7.716	59.961	1.00	30.42
50	1662	CD2	LEU	Α	887	28.362	7.129	57.600	1.00	34.48
	1663	N	HIS	Α	888	30.722	11.949	56.922	1.00	20.58
	1664	CA	HIS	Α	888	30.834	13.416	56.812	1.00	19.88
55	1665	С	HIS	Α	888	30.633	13.886	55.368	1.00	23.80
[1666	0	HIS	Α	888	29.931	14.867	55.107	1.00	21.80
[1667	СВ	HIS	Α	888	32.205	13.878	57.303	1.00	21.04

TABLE 10 (continued)

				TAI	3LE 10	(continued)	IN COMPLE	x WITH PG		
1		THREE	-DIMENSION				Z	occ	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	#	X	Y	13.932	58.792	1.00	19.68
,	1668	CG	HIS	Α	888	32.338	13.960	59.424	1.00	21.40
	1669	ND1	HIS	Α	888	33.561	14.036	59.768	1.00	20.80
	1670	CD2	HIS	A	888	31.407	14.080	60.728	1.00	24.56
)	1671	CE1	HIS	A	888	33.378	14.129	60.964	1.00	26.11
	1672	NE2	HIS	A	888	32.081	13.178	54.426	1.00	22.67
	1673	N	LEU	A	889	31.248	13.550	53.025	1.00	21.83
	1674	CA	LEU	A	889	31.114	13.377	52.530	1.00	21.54
5	1675	С	LEU	A	889	29.679	14.251	51.854	1.00	20.75
	1676	0	LEU	A	889	29.144	12.712	52.174	1.00	20.66
	1677	СВ	LEU	A	889	32.056	 	50.683	1.00	26.71
20	1678	CG	LEU	A	889	32.041	13.046	50.441	1.00	27.37
	1679	CD1	LEU	A	889	32.298	 	50.026	1.00	22.77
	1680	CD2	LEU	A	889	33.118	12.204	52.874	1.00	19.92
	1681	N	TYR	A	890	29.048	12.255	52.439	1.00	19.47
25	1682	CA	TYR	A	890	27.668	12.011	53.022	1.00	22.05
	1683	С	TYR	A	890	26.732	13.091	52.339	1.00	20.67
	1684	0	TYR	A	890	25.853	1	52.890	1.00	19.20
30	1685	СВ	TYR	A	890		+	52.090	1.00	27.69
	1686	CG	TYR	A	890		10.044	52.685	1.00	26.53
	1687	CD1	TYR	A	890			51.250	1.00	24.52
	1688	CD2	TYR	A	890		12.004		1.00	30.01
35	1689	CE1	TYR	A	890		+	52.095	1.00	26.75
	1690	CE2	TYR	A	890			51.083	1.00	+
	1691	CZ	TYR	Α	890			50.505	1.00	
40	1692	OH	TYR	Α	890				1.00	
	1693	3 N	CYS		89	$-\!\!\!+\!\!\!-\!\!\!\!-$		54.291	1.00	
	1694	1 CA	CYS	1	89				1.00	
	169	5 C	CYS	/	89			54.324	1.00	
45	169	6 O	CYS		A 89			54.016	1.00	
	169	7 CB	CYS		A 89	1 26.54		- +	1.00	25.25
	169	8 SG	CYS		A 89				1.0	
50	169	9 N	LEU		A 89				1.0	
	170	0 CA	LEU		A 89	27.70			1.0	
	170)1 C	LEU		A 89	27.14	- 		1.0	
	170		LEU		A 8	26.6				
55	170	03 CB	LEU		A 8	92 29.1				
	170		LEU		A 8	92 29.5	26 19.338	53.070		20.14

		THREE	-DIMENSION	IAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PG	1	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	осс	В	ATOM
5	1705	CD1	LEU	Α	892	28.775	20.349	53.943	1.00	29.95
	1706	CD2	LEU	Α	892	31.029	19.551	53.163	1.00	28.07
	1707	N	ASN	Α	893	27.266	16.558	51.353	1.00	23.21
10	1708	CA	ASN	Α	893	26.702	16.526	50.002	1.00	23.92
	1709	С	ASN	Α	893	25.180	16.641	50.038	1.00	25.99
	1710	0	ASN	Α	893	24.592	17.406	49.284	1.00	27.51
45	1711	СВ	ASN	Α	893	27.037	15.224	49.263	1.00	27.01
15	1712	CG	ASN	Α	893	28.363	15.275	48.562	1.00	29.03
	1713	OD1	ASN	Α	893	28.794	16.335	48.109	1.00	30.83
	1714	ND2	ASN	Α	893	29.004	14.116	48.421	1.00	29.90
20	1715	N	THR	Α	894	24.543	15.853	50.896	1.00	25.80
	1716	CA	THR	Α	894	23.089	15.871	51.014	1.00	25.04
	1717	С	THR	Α	894	22.594	17.211	51.529	1.00	24.51
25	1718	0	THR	Α	894	21.518	17.670	51.147	1.00	28.41
25	1719	СВ	THR	Α	894	22.598	14.741	51.958	1.00	22.97
	1720	OG1	THR	Α	894	23.051	13.488	51.441	1.00	23.34
	1721	CG2	THR	A	894	21.089	14.729	52.057	1.00	25.92
30	1722	N	PHE	Α	895	23.395	17.832	52.390	1.00	23.12
	1723	CA	PHE	Α	895	23.072	19.126	52.983	1.00	23.28
	1724	С	PHE	Α	895	23.083	20.188	51.878	1.00	26.81
35	1725	0	PHE	Α	895	22.185	21.022	51.808	1.00	27.75
	1726	СВ	PHE	Α	895	24.113	19.477	54.049	1.00	22.97
	1727	CG	PHE	Α	895	23.848	20.775	54.766	1.00	20.82
	1728	CD1	PHE	Α	895	22.805	20.892	55.673	1.00	21.56
40	1729	CD2	PHE	Α	895	24.632	21.892	54.497	1.00	25.72
	1730	CE1	PHE	Α	895	22.536	22.104	56.310	1.00	26.99
	1731	CE2	PHE	Α	895	24.374	23.109	55.126	1.00	28.83
45	1732	CZ	PHE	Α	895	23.324	23.217	56.035	1.00	24.76
	1733	N	ILE	Α .	896	24.104	20.157	51.024	1.00	26.30
	1734	CA	ILE	Α	896	24.189	21.112	49.915	1.00	27.51
	1735	С	ILE	Α	896	23.068	20.887	48.886	1.00	30.83
50	1736	0	ILE	Α	896	22.585	21.834	48.256	1.00	31.33
	1737	СВ	ILE	Α	896	25.561	21.018	49.213	1.00	30.94
	1738	CG1	ILE	Α	896	26.643	21.588	50.133	1.00	31.10
55	1739	CG2	ILE	Α	896	25.527	21.750	47.876	1.00	33.25
	1740	CD1	ILE	Α	896	28.031	21.529	49.540	1.00	42.81
	1741	N	GLN	Α	897	22.640	19.637	48.723	1.00	29.65

TABLE 10 (continued)

				TAE	SLE 10 (continued)	IN COMPLE	x WITH PG		
		THREE	-DIMENSION				Z	occ	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	#	X	Y 500	19.326	47.752	1.00	30.69
5	1742	CA	GLN	A	897	21.590	19.143	48.430	1.00	33.21
	1743	С	GLN	A	897	20.239	18.673	47.800	1.00	36.42
	1744	0	GLN	A	897	19.288	18.040	47.003	1.00	34.22
10	1745	СВ	GLN	Α	897	21.951	18.025	46.508	1.00	33.58
	1746	CG	GLN	A	897	23.385	16.698	45.900	1.00	46.71
	1747	CD	GLN	A	897	23.814	16.444	45.732	1.00	45.14
	1748	OE1	GLN	A	897	25.010	15.857	45.547	1.00	39.95
15	1749	NE2	GLN	A	897	22.847	19.519	49.705	1.00	31.45
	1750	N	SER	A .	898	20.145	19.333	50.464	1.00	35.66
	1751	CA	SER	A	898	18.909	19.766	49.764	1.00	34.55
20	1752	С	SER	A	898	17.620	19.034	49.780	1.00	31.82
	1753	0	SER	A	898	16.635	20.008	51.839	1.00	32.53
	1754	СВ	SER	_ A	898	19.011	21.410	51.741	1.00	46.60
	1755	OG	SER	_ A	898	19.182	20.942	49.149	1.00	37.58
25	1756	N	ARG	A	899	17.606	21.377	48.482	1.00	43.27
	1757	CA	ARG	A	899	16.385	ļ	47.282	1.00	46.14
	1758	С	ARG	A	899	16.084	20.489	47.023	1.00	46.04
30	1759	0	ARG	A	899	14.925	20.152	48.057	1.00	45.98
	1760	CB	ARG	A	899	16.488	22.847	49.194	1.00	58.17
	1761	CG	ARG	A	899	16.891	23.785	50.451	1.00	63.03
	1762	CD	ARG	A	899			50.302	1.00	72.16
35	1763	NE	ARG	A	899			50.169	1.00	72.47
	1764	CZ	ARG	A	899			50.168	1.00	73.96
	1765	NH1	ARG	A				50.049	1.00	
40	1766	NH2	ARG	_ A	899			46.571	1.00	
	1767	N	ALA	A				45.400	1.00	
	1768	CA CA	ALA	A	900		+	45.768	1.00	
	1769) C	ALA	A	-			45.768	1.00	
45	1770	0	ALA					44.601	1.00	
	177	1 CB	ALA	A		- 			1.00	
	177	2 N	LEU	/	90				1.0	
50	177	3 CA	LEU		90				1.0	
	177	4 C	LEU		A 90				1.0	
	177	5 O	LEU		A 90				1.0	
	177	6 CB	LEU		A 90					
55	177	7 CG	LEU		A 90		11.000			
	177	78 CD1	LEU)	A 90	20.36	9 14.833	40.234		

		THREE	-DIMENSION	IAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PG	<u>. </u>	
	АТОМ	ATOM TYPE	RESIDUE	#	X	Υ	Z	осс	В	ATOM
5	1779	CD2	LEU	Α	901	18.984	14.128	46.266	1.00	41.21
	1780	N	SER	Α	902	14.944	17.092	48.516	1.00	38.21
	1781	CA	SER	Α	902	13.773	17.180	49.365	1.00	35.93
10	1782	C	SER	Α	902	14.094	16.659	50.762	1.00	34.57
	1783	0	SER	Α	902	13.243	16.063	51.415	1.00	33.32
	1784	СВ	SER	Α	902	12.603	16.382	48.773	1.00	42.40
4.5	1785	OG	SER	Α	902	12.170	16.942	47.546	1.00	50.36
15	1786	8	VAL	Α	903	15.325	16.884	51.219	1.00	32.92
	1787	CA	VAL	Α	903	15.734	16.436	52.552	1.00	30.26
	1788	C	VAL	Α	903	15.849	17.645	53.484	1.00	31.81
20	1789	0	VAL	Α	903	16.582	18.586	53.198	1.00	34.09
	1790	СВ	VAL	Α	903	17.087	15.700	52.500	1.00	30.61
;	1791	CG1	VAL	Α	903	17.527	15.298	53.919	1.00	30.31
25	1792	CG2	VAL	Α	903	16.967	14.449	51.608	1.00	26.90
25	1793	N	GLU	Α	904	15.104	17.627	54.584	1.00	28.12
	1794	CA	GLU	Α	904	15.153	18.720	55.543	1.00	27.45
	1795	С	GLU	Α	904	16.163	18.489	56.665	1.00	27.94
30	1796	0	GLU	Α	904	16.217	17.400	57.223	1.00	26.23
	1797	СВ	GLU	Α	904	13.780	18.941	56.175	1.00	33.68
	1798	CG	GLU	Α	904	13.807	20.006	57.271	1.00	51.81
35	1799	CD	GLU	Α	904	12.457	20.233	57.929	1.00	62.71
55	1800	OE1	GLU	Α	904	11.469	19.575	57.530	1.00	63.38
	1801	OE2	GLU	Α	904	12.387	21.080	58.852	1.00	63.52
	1802	N	PHE	Α	905	16.957	19.516	56.982	1.00	25.35
40	1803	CA	PHE	Α	905	17.935	19.447	58.071	1.00	24.39
	1804	С	PHE	Α	905	17.468	20.454	59.109	1.00	26.69
	1805	0	PHE	Α	905	17.219	21.610	58.770	1.00	27.33
45	1806	СВ	PHE	Α	905	19.359	19.856	57.629	1.00	25.14
	1807	CG	PHE	Α	905	20.072	18.833	56.786	1.00	21.63
	1808	CD1	PHE	Α	905	19.735	18.642	55.457	1.00	22.11
	1809	CD2	PHE	Α	905	21.068	18.043	57.343	1.00	23.38
50	1810	CE1	PHE	Α	905	20.383	17.678	54.691	1.00	19.55
	1811	CE2	PHE	Α	905	21.726	17.072	56.592	1.00	24.14
	1812	CZ	PHE	Α	905	21.382	16.888	55.261	1.00	22.83
55	1813	N	PRO	Α	906	17.333	20.037	60.379	1.00	23.73
	1814	CA	PRO	Α	906	16.891	20.955	61.432	1.00	22.74
	1815	С	PRO	Α	906	17.982	22.002	61.720	1.00	22.33

TABLE 10 (continued)

				TAB	SLE 10 ((continued)	IN COMPLE	x WITH PG		
			-DIMENSION				Z	occ	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	#	X	Y 10.116	21.882	61.267	1.00	22.26
5	1816	0	PRO		906	19.116	20.024	62.623	1.00	24.51
	1817	СВ	PRO	A	906	16.649	18.675	61.959	1.00	30.94
	1818	CG	PRO	A	906	16.392	18.695	60.948	1.00	29.32
10	1819	CD	PRO	A	906	17.516	23.016	62.495	1.00	25.11
	1820	N	GLU	Α	907	17.627	24.119	62.809	1.00	22.58
	1821	CA	GLU	Α	907	18.543		63.543	1.00	21.81
	1822	С	GLU	Α	907	19.848	23.834	63.162	1.00	23.58
15	1823	0	GLU	A	907	20.896	24.342	63.589	1.00	23.00
	1824	СВ	GLU	A	907	17.782	25.193	62.848	1.00	25.08
	1825	CG	GLU	A	907	16.592	25.833	61.539	1.00	31.26
20	1826	CD	GLU	A	907	16.951	26.530		1.00	31.56
	1827	OE1	GLU	A	907	18.064	27.086	61.413	1.00	31.17
	1828	OE2	GLU	A	907	16.089	26.561	60.631	1.00	20.50
	1829	N	MET	A	908	19.803	23.052	64.618	1.00	22.40
25	1830	CA	MET	Α	908	21.033	22.786	65.356		20.88
	1831	С	MET	A	908	21.994	21.936	64.541	1.00	22.84
	1832	0	MET	A	908	23.205	22.153	64.566	1.00	28.13
30	1833	СВ	MET	Α	908	20.706	22.112	66.694	1.00	30.10
	1834	CG	MET	Α	908	19.770	22.954	67.553	1.00	36.75
	1835	SD	MET	Α	908	19.342	22.226	69.147	1.00	29.48
	1836	CE	MET	Α	908	18.819	20.575	68.656	1.00	22.18
35	1837	N	MET	Α	909	21.458	20.977	63.798	1.00	20.40
	1838	CA	MET	Α	909	22.303	20.120	62.982	1.00	20.40
	1839	С	MET	Α	909	22.866		61.825	1.00	20.24
40	1840		MET	Α	909	24.018		61.442	1.00	24.51
	1841		MET	А	909	21.496		62.450	1.00	36.88
	1842		MET	А	909	22.335		61.747	1.00	38.44
	1843		MET	А	909	21.313		61.357	1.00	
45	1844	- 	MET	Α	909	22.491		60.507	1.00	+
	1845		SER	А	910	22.052		61.263	1.00	
	1846		SER	A	910	22.520		60.160	1.00	
50	184		SER	Α	910	23.678	23.505	60.651	1.00	
	184		SER	А	910	24.64		59.915	1.00	
	184		SER	Δ	910	21.38	1 23.509	59.630	1.00	
	185		SER	A	910	20.33	4 22.728	59.067	1.00	
55	185		GLU	A	91	1 23.57	7 23.985	61.888	1.00	_ +
	185		GLU	1	91	1 24.63	7 24.831	62.430	1.00	25.0

		THREE	-DIMENSION	VAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	1853	C	GLU	Α	911	25.965	24.103	62.594	1.00	25.56
	1854	0	GLU	Α	911	26.997	24.631	62.208	1.00	26.95
	1855	СВ	GLU	Α	911	24.232	25.458	63.770	1.00	26.93
10	1856	ÇG	GLU	Α	911	25.361	26.272	64.407	1.00	30.33
	1857	CD	GLU	Α	911	25.842	27.437	63.535	1.00	45.68
	1858	OE1	GLU	A	911	25.054	27.944	62.705	1.00	48.37
	1859	OE2	GLU	Α	911	27.010	27.865	63.694	1.00	40.75
15	1860	N	VAL	Α	912	25.959	22.901	63.163	1.00	23.66
	1861	CA	VAL	4	912	27.215	22.197	63.335	1.00	24.09
	1862	С	VAL	A	912	27.816	21.806	61.995	1.00	22.11
20	1863	0	VAL	Α	912	29.035	21.848	61.830	1.00	23.47
	1864	СВ	VAL	Α	912	27.070	20.931	64.259	1.00	25.40
	1865	CG1	VAL	Α	912	26.617	21.357	65.635	1.00	27.52
25	1866	CG2	VAL	Α	912	26.066	19.926	63.673	1.00	28.29
20	1867	N	ILE	Α	913	26.968	21.462	61.022	1.00	20.76
	1868	CA	ILE	Α	913	27.475	21.077	59.704	1.00	20.13
	1869	С	ILE	Α	913	28.167	22.255	59.050	1.00	23.37
30	1870	0	ILE	Α	913	29.302	22.149	58.567	1.00	25.36
	1871	СВ	ILE	Α	913	26.336	20.565	58.788	1.00	19.24
	1872	CG1	ILE	Α	913	25.835	19.220	59.302	1.00	22.39
<i>35</i>	1873	CG2	ILE	Α	913	26.833	20.425	57.348	1.00	18.20
	1874	CD1	ILE	Α	913	24.472	18.815	58.727	1.00	26.26
	1875	N	ALA	Α	914	27.491	23.392	59.051	1.00	23.60
,	1876	CA	ALA	Α	914	28.041	24.600	58.451	1.00	30.05
40	1877	С	ALA	Α	914	29.260	25.131	59.199	1.00	27.97
	1878	0	ALA	Α	914	30.189	25.666	58.595	1.00	31.89
	1879	СВ	ALA	Α	914	26.953	25.694	58.381	1.00	24.81
45	1880	N	ALA	Α	915	29.273	24.983	60.515	1.00	28.98
	1881	CA	ALA	Α	915	30.394	25.494	61.292	1.00	30.10
	1882	С	ALA	Α	915	31.698	24.711	61.143	1.00	29.70
·	1883	0	ALA	Α	915	32.777	25.299	61.203	1.00	30.09
50	1884	СВ	ALA	Α	915	30.009	25.578	62.773	1.00	29.66
	1885	N	GLN	Α	916	31.622	23.401	60.923	1.00	26.34
ļ	1886	CA	GLN	Α	916	32.848	22.627	60.843	1.00	23.29
55	1887	С	GLN	A	916	33.045	21.567	59.764	1.00	23.47
	1888	0	GLN	Α	916	34.190	21.219	59.480	1.00	24.44
l	1889	СВ	GLN	Α	916	33.101	21.914	62.180	1.00	29.83

TABLE 10 (continued)

			-DIMENSION	TAE	OBDINA"	(continued)	IN COMPLE	X WITH PG		
					X	Y	Z	осс	В	ATOM
	ATOM	ATOM TYPE	RESIDUE	-#		33.182	22.761	63.424	1.00	31.14
5	1890	CG	GLN	A	916	34.230	23.845	63.355	1.00	37.37
	1891	CD	GLN	A	916	35.302	23.660	62.780	1.00	33.07
	1892	OE1	GLN	Α	916	33.938	24.979	63.979	1.00	42.40
10	1893	NE2	GLN	A	916	31.980	21.005	59.193	1.00	24.92
	1894	N	LEU	A	917	 +	19.927	58.218	1.00	27.91
	1895	CA	LEU	A .	917	32.200	20.194	57.078	1.00	27.51
	1896	С	LEU	A	917		19.362	56.790	1.00	30.01
15	1897	0	LEU	A	917	34.019	19.372	57.646	1.00	28.45
	1898	СВ	LEU	A	917	30.885	18.339	58.540	1.00	34.41
	1899	CG	LEU	A	917	30.195	17.522	57.722	1.00	28.16
20	1900	CD1	LEU	A	917	29.179	17.388	59.093	1.00	34.26
	1901	CD2	LEU	A	917	31.244		56.387	1.00	27.54
	1902	N	PRO	A	918	33.025	21.329	55.301	1.00	27.73
	1903	CA	PRO	A	918	33.977	21.564	55.809	1.00	24.86
25	1904	С	PRO	A	918	35.434	21.568	55.166	1.00	25.75
	1905	0	PRO	A	918	36.325	21.024	54.762	1.00	27.68
	1906	СВ	PRO	A	918	33.536	22.922	55.026	1.00	26.00
30	1907	CG	PRO	Α	918	32.031	22.901		1.00	28.16
	1908	CD	PRO	A	918		22.439	56.472	1.00	23.19
	1909	N	LYS	Α	919	35.672	22.184	56.962	1.00	24.99
	1910	CA	LYS	A	919	37.023		57.529	1.00	26.95
35	1911	С	LYS	А	919	37.508		57.870	1.00	26.77
	1912	0	LYS	Α	919	38.632		57.537	1.00	31.71
	1913	СВ	LYS	A	919	37.023		58.794	1.00	36.39
40	1914	CG	LYS	A	919	38.382		59.446		41.59
	1915		LYS	А	919			60,774	1.00	
	1916		LYS	Α	919	37.608		60.579	1.00	+
	1917		LYS	Α	919	37.319		61.879	1.00	
45	1918	3 N	ILE	A	920	36.655		58.533		
	1919		ILE	F	920	0 37.013		58.898	1.00	+
	192		ILE	1	92	0 37.32	-	57.660	1.00	
50	192		ILE		92	0 38.33		57.607	1.00	
	192		ILE	7	92	0 35.87		59.665	1.00	
	192		ILE	1	A 92	0 35.61		60.951	1.00	
	192		ILE	-	A 92	20 36.19		59.947	1.00	
<i>55</i>	192		ILE		A 92	20 34.39	6 18.353		1.0	-
	192	+	LEU		A 92	21 36.43	17.900	56.667	1.0	0 26.4

		THREE	-DIMENSION	IAL CC	ORDINA	ATES OF P	R IN COMPL	EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	осс	В	ATOM
5	1927	CA	LEU	Α	921	36.666	17.144	55.427	1.00	29.61
	1928	С	LEU	Α	921	37.946	17.540	54.707	1.00	30.39
	1929	0	LEU	Α	921	38.630	16.695	54.116	1.00	32.46
10	1930	СВ	LEU	Α	921	35.480	17.314	54.469	1.00	27.19
	1931	CG	LEU	Α	921	34.263	16.472	54.845	1.00	30.49
	1932	CD1	LEU	Α	921	33.102	16.772	53.931	1.00	31.06
4.5	1933	CD2	LEU	A	921	34.648	14.981	54.750	1.00	32.39
15	1934	Ν	ALA	Α	922	38.271	18.824	54.743	1.00	28.14
	1935	CA	ALA	Α	922	39.474	19.290	54.081	1.00	29.10
	1936	C	ALA	Α	922	40.713	18.854	54.858	1.00	29.03
20	1937	0	ALA	Α	922	41.827	19.063	54.407	1.00	32.66
	1938	СВ	ALA	Α	922	39.431	20.802	53.934	1.00	25.78
	1939	N	GLY	Α	923	40.517	18.239	56.025	1.00	30.49
25	1940	CA	GLY	Α	923	41.654	17.799	56.821	1.00	30.14
25	1941	C	GLY	Α	923	42.363	18.923	57.570	1.00	28.27
	1942	0	GLY	Α	923	43.565	18.844	57.827	1.00	35.23
	1943	N	MET	Α	924	41.634	19.975	57.926	1.00	27.77
30	1944	CA	MET	Α	924	42.237	21.094	58.641	1.00	31.40
	1945	С	MET	Α	924	42.021	20.949	60.147	1.00	28.03
	1946	0	MET	Α	924	41.716	21.914	60.846	1.00	31.74
35	1947	СВ	MET	Α	924	41.656	22.412	58.126	1.00	32.66
55	1948	CG	MET	A	924	41.757	22.533	56.622	1.00	42.63
	1949	SD	MET	Α	924	43.454	22.403	56.010	1.00	42.80
	1950	CE	MET	Α	924	44.203	23.867	56.804	1.00	43.49
40	1951	N	VAL	Α	925	42.167	19.715	60.616	1.00	29.55
	1952	CA	VAL	Α	925	42.028	19.354	62.024	1.00	28.30
	1953	С	VAL	Α	925	43.041	18.257	62.292	1.00	31.38
45	1954	0	VAL	Α	925	43.547	17.632	61.360	1.00	28.00
	1955	СВ	VAL	Α	925	40.620	18.814	62.362	1.00	27.98
:	1956	CG1	VAL	Α	925	39.587	19.919	62.174	1.00	25.65
	1957	CG2	VAL	Α	925	40.310	17.599	61.504	1.00	28.25
50	1958	N	LYS	Α	926	43.319	18.017	63.568	1.00	28.65
	1959	CA	LYS	Α	926	44.299	17.027	63.972	1.00	27.13
ĺ	1960	С	LYS	Α	926	43.667	15.795	64.609	1.00	27.33
55	1961	0	LYS	Α	926	43.332	15.791	65.790	1.00	26.71
	1962	СВ	LYS	Α	926	45.275	17.677	64.949	1.00	30.31
	1963	CG	LYS	Α	926	46.273	16.727	65.570	1.00	36.48

TABLE 10 (continued)

		E-DIMENSIO	NAL C	OORDIN	ATES OF I	PR IN COMPI	LEX WITH PO	G	
ATOM	ATOM TYPE	RESIDUE	#	X	Υ	Z	occ	В	AT
1964	CD	LYS	Α	926	47.144	17.464	66.576	1.00	42.
1965	CE	LYS	Α	926	48.016	16.489	67.350	1.00	45.
1966	NZ	LYS	Α	926	48.834	15.673	66.424	1.00	41.
1967	N	PRO	Α	927	43.494	14.725	63.825	1.00	29.
1968	CA	PRO	Α	927	42.894	13.504	64.360	1.00	29.
1969	С	PRO	Α	927	43.890	12.891	65.342	1.00	32.
1970	0	PRO	Α	927	45.079	12.817	65.033	1.00	31.
1971	СВ	PRO	Α	927	42.721	12.641	63.109	1.00	32.
1972	CG	PRO	Α	927	42.704	13.692	61.952	1.00	33.
1973	CD	PRO	Α	927	43.837	14.547	62.404	1.00	29.
1974	N	LEU	Α	928	43.442	12.483	66.528	1.00	26.0
1975	CA	LEU	Α	928	44.376	11.871	67.467	1.00	28.8
1976	С	LEU	Α	928	44.318	10.382	67.226	1.00	32.7
1977	0	LEU	Α	928	43.235	9.805	67.126	1.00	32.5
1978	СВ	LEU	Α	928	44.005	12.198	68.920	1.00	28.2
1979	CG	LEU	Α	928	43.999	13.703	69.214	1.00	27.4
1980	CD1	LEU	Α	928	43.689	13.946	70.690	1.00	25.9
1981	CD2	LEU	Α	928	45.361	14.305	68.852	1.00	28.6
1982	N	LEU	Α	929	45.485	9.763	67.116	1.00	29.1
1983	CA	LEU	Α	929	45.564	8.329	66.855	1.00	32.0
1984	С	LEU	Α	929	46.301	7.595	67.966	1.00	33.9
1985	0	LEU	Α	929	47.258	8.125	68.526	1.00	35.1
1986	СВ	LEU	Α	929	46.292	8.092	65.525	1.00	30.8
1987	CG	LEU	Α	929	45.639	8.707	64.281	1.00	41.7
1988	CD1	LEU	Α	929	46.568	8.573	63.076	1.00	37.0
1989	CD2	LEU	Α	929	44.309	8.022	64.023	1.00	38.2
1990	N	PHE	Α	930	45.844	6.387	68.293	1.00	30.9
1991	CA	PHE	Α	930	46.505	5.580	69.316	1.00	36.9
1992	С	PHE	Α	930	47.659	4.788	68.730	1.00	37.8
1993	0	PHE	Α	930	48.595	4.419	69.441	1.00	40.7
1994	СВ	PHE	Α	930	45.546	4.589	69.962	1.00	33.9
1995	CG	PHE	Α	930	44.615	5.212	70.942	1.00	31.8
1996	CD1	PHE	Α	930	45.035	5.440	72.248	1.00	27.9
1997	CD2	PHE	Α	930	43.346	5.613	70.562	1.00	29.8
1998	CE1	PHE	A	930	44.197	6.063	73.157	1.00	34.0
1999	CE2	PHE	Α	930	42.496	6.238	71.470	1.00	31.1
2000	CZ	PHE	A	930	42.922	6.464	72.765	1.00	31.5

		THREE	E-DIMENSION	IAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PG	ì	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	осс	В	ATOM
5	2001	N	HIS	Α	931	47.580	4.517	67.434	1.00	39.64
	2002	CA	HIS	Α	931	48.622	3.762	66.764	1.00	43.59
	2003	С	HIS	A	931	49.174	4.515	65.573	1.00	45.74
10	2004	0	HIS	A	931	48.430	4.988	64.719	1.00	48.72
	2005	СВ	HIS	Α	931	48.065	2.406	66.347	1.00	41.38
	2006	CG	HIS	Α	931	47.460	1.655	67.488	1.00	44.29
15	2007	ND1	HIS	Α	931	48.185	1.302	68.605	1.00	49.69
15	2008	CD2	HIS	Α	931	46.184	1.276	67.733	1.00	48.24
	2009	CE1	HIS	Α	931	47.381	0.741	69.491	1.00	50.45
	2010	NE2	HIS	Α	931	46.161	0.712	68.986	1.00	49.57
20	2011 1	N	LYS	Α	932	50.496	4.635	65.550	1.00	50.39
	2012	CA	LYS	Α	932	51.221	5.314	64.486	1.00	56.63
	2013	С	LYS	Α	932	50.976	4.605	63.161	1.00	53.01
25	2014	0	LYS	Α	932	50.889	3.363	63.224	1.00	56.94
23	2015	СВ	LYS	Α	932	52.711	5.303	64.831	1.00	57.98
	2016	CG	LYS	Α	932	53.169	3.943	65.342	1.00	61.12
	2017	CD	LYS	Α	932	54.581	3.972	65.892	1.00	65.23
30	2018	CE	LYS	Α	932	54.895	2.685	66.651	1.00	65.01
	2019	NZ	LYS	Α	932	54.769	1.469	65.799	1.00	63.73
	2020		LYS	Α	932					
35	2021	C1	STR	Α	1	21.206	9.935	63.081	1.00	24.82
	2022	C2	STR	Α	1	21.241	9.446	64.551	1.00	23.75
	2023	C3	STR	Α	1	22.000	8.125	64.630	1.00	25.95
	2024	03	STR	Α	1	21.701	7.301	65.512	1.00	31.79
40	2025	C4	STR	Α	1	23.118	7.872	63.734	1.00	21.13
٠	2026	C5	STR	Α	1	23.453	8.727	62.785	1.00	20.44
	2027	C6	STR	Α	1	24.697	8.443	61.951	1.00	23.35
45	2028	C7	STR	Α	1	24.449	8.637	60.443	1.00	28.93
	2029	C8	STR	Α	1	23.789	9.997	60.098	1.00	21.68
	2030	C9	STR	Α	1	22.434	10.095	60.872	1.00	20.21
	2031	C10	STR	Α	1	22.614	10.023	62.434	1.00	19.15
50	2032	C11	STR	Α	1	21.633	11.354	60.450	1.00	20.97
	2033	C12	STR	Α	1	21.432	11.434	58.911	1.00	21.57
	2034	C13	STR	Α	1	22.786	11.404	58.169	1.00	21.81
55	2035	C14	STR	Α	1	23.483	10.060	58.598	1.00	21.81
	2036	C15	STR	Α	1	24.674	9.918	57.618	1.00	26.96
	2037	C16	STR	Α	1	24.072	10.450	56.267	1.00	31.06

		THREE	-DIMENSION	IAL CO	ORDINA	TES OF PI	R IN COMPLE	EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	2038	C17	STR	Α	1	22.714	11.149	56.627	1.00	22.28
	2039	C18	STR	Α	1	23.659	12.677	58.454	1.00	20.57
	2040	C19	STR	Α	1	23.427	11.246	63.007	1.00	21.41
10	2041	C20	STR	Α	1	22.375	12.388	55.781	1.00	25.07
	2042	020	STR	Α	1	23.212	12.876	55.052	1.00	29.48
	2043	C21	STR	Α	1	21.009	12.976	55.857	1.00	25.63
	2044	N	LEU	В	683	60.447	28.744	14.730	1.00	61.24
15	2045	CA	LEU	В	683	59.070	29.295	14.876	1.00	59.60
	2046	С	LEU	В	683	58.273	28.573	15.963	1.00	56.34
	2047	0	LEU	В	683	58.751	27.612	16.566	1.00	58.01
20	2048	СВ	LEU	В	683	58.346	29.241	13.523	1.00	59.47
	2049	CG	LEU	В	683	58.334	27.934	12.719	1.00	63.19
	2050	CD1	LEU	В	683	57.530	26.865	13.447	1.00	61.93
	2051	CD2	LEU	В	683	57.728	28.201	11.343	1.00	61.94
25	2052	N	ILE	В	684	57.055	29.045	16.212	1.00	57.02
	2053	CA	ILE	В	684	56.194	28.468	17.244	1.00	48.99
	2054	С	ILE	В	684	55.519	27.152	16.828	1.00	48.76
30	2055	0	ILE	В	684	54.990	27.044	15.724	1.00	41.43
	2056	СВ	ILE	В	684	55.094	29.468	17.631	1.00	54.99
	2057	CG1 I	ILE	В	684	55.718	30.827	17.971	1.00	54.78
	2058	CG2	ILE	В	684	54.296	28.933	18.815	1.00	49.74
35	2059	CD1	ILE	В	684	56.677	30.804	19.143	1.00	54.94
	2060	N	PRO	В	685	55.532	26.135	17.710	1.00	42.36
	2061	CA	PRO	В	685	54.912	24.837	17.424	1.00	42.23
40	2062	С	PRO	В	685	53.443	25.058	17.084	1.00	41.20
	2063	0	PRO	В	685	52.741	25.801	17.780	1.00	37.15
	2064	СВ	PRO	В	685	55.095	24.082	18.738	1.00	44.89
45	2065	CG	PRO	В	685	56.412	24.638	19.230	1.00	47.57
70	2066	CD	PRO	В	685	56.116	26.115	19.062	1.00	46.29
	2067	N	PRO	В	686	52.948	24.395	16.029	1.00	37.46
	2068	CA	PRO	В	686	51.549	24.575	15.644	1.00	35.10
50	2069	С	PRO	В	686	50.533	24.458	16.783	1.00	29.47
	2070	0	PRO	В	686	49.675	25.317	16.919	1.00	28.34
	2071	СВ	PRO	В	686	51.364	23.520	14.549	1.00	37.20
55	2072	CG	PRO	В	686	52.417	22.466	14.906	1.00	39.30
	2073	CD	PRO	В	686	53.579	23.402	15.146	1.00	39.17
	2074	N	LEU	В	687	50.641	23.423	17.607	1.00	27.64

		THREE	-DIMENSION	VAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PG	i	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	2075	CA	LEU	В	687	49.680	23.254	18.698	1.00	29.33
	2076	C	LEU	В	687	49.656	24.470	19.623	1.00	32.07
	2077	0	LEU	В	687	48.603	24.851	20.154	1.00	29.30
10	2078	СВ	LEU	В	687	49.991	21.982	19.489	1.00	29.35
	2079	CG	LEU	В	687	49.030	21.634	20.640	1.00	28.23
	2080	CD1	LEU	В	687	47.590	21.521	20.135	1.00	34.54
	2081	CD2	LEU	В	687	49.476	20.327	21.279	1.00	37.01
15	2082	N	ILE	В	688	50.814	25.094	19.810	1.00	29.32
	2083	CA	ILE	В	688	50.893	26.268	20.659	1.00	29.95
	2084	O	ILE	В	688	50.225	27.466	19.976	1.00	29.12
20	2085	0	ILE	В	688	49.544	28.260	20.626	1.00	31.19
	2086	СВ	ILE	В	688	52.365	26.573	21.029	1.00	25.50
	2087	CG1	ILE	В	688	52.945	25.393	21.826	1.00	35.36
25	2088	CG2	ILE	В	688	52.450	27.851	21.831	1.00	30.73
25	2089	CD1	ILE	В	688	54.354	25.613	22.354	1.00	30.80
	2090	N	ASN	В	689	50.396	27.607	18.663	1.00	32.90
	2091	CA	ASN	В	689	49.744	28.720	17.970	1.00	26.76
30	2092	С	ASN	В	689	48.246	28.520	18.037	1.00	27.49
	2093	0	ASN	В	689	47.490	29.473	18.168	1.00	29.38
	2094	СВ	ASN	В	689	50.163	28.802	16.497	1.00	37.63
35	2095	CG	ASN	В	689	51.544	29.392	16.315	1.00	42.51
	2096	OD1	ASN	В	689	51.843	30.467	16.844	1.00	50.26
	2097	ND2	ASN	В	689	52.391	28.706	15.550	1.00	49.44
	2098	N	LEU	В	690	47.816	27.270	17.938	1.00	26.48
40	2099	CA	LEU	В	690	46.389	26.992	17.998	1.00	30.44
	2100	С	LEU	В	690	45.879	27.386	19.379	1.00	29.46
	2101	0	LEU	В	690	44.849	28.034	19.487	1.00	25.83
45	2102	СВ	LEU	В	690	46.110	25.518	17.737	1.00	33.45
	2103	CG	LEU	В	690	44.641	25.073	17.699	1.00	36.64
	2104	CD1	LEU	В	690	43.832	25.943	16.752	1.00	48.71
	2105	CD2	LEU	В	690	44.591	23.624	17.254	1.00	48.02
50	2106	N	LEU	В	691	46.607	26.999	20.426	1.00	24.64
	2107	CA	LEU	В	691	46.203	27.342	21.788	1.00	25.80
	2108	С	LEU	В	691	46.058	28.845	21.954	1.00	24.20
55	2109	0	LEU	В	691	45.139	29.311	22.620	1.00	27.02
	2110	СВ	LEU	В	691	47.195	26.774	22.821	1.00	23.63
	2111	CG	LEU	В	691	47.230	25.246	23.002	1.00	27.81

TABLE 10 (continued)

Г		THREE	-DIMENSION	AL CO	ORDINAT	ES OF PF	IN COMPLE	X WITH PG		
	ATOM I	ATOM TYPE	RESIDUE	#	x	Y	Z	occ	В	ATOM
-	ATOM	CD1	LEU	В	691	48.278	24.847	24.069	1.00	22.95
	2112	CD2	LEU	В	691	45.838	24.749	23.443	1.00	24.81
	2113	N N	MET	В	692	46.942	29.626	21.337	1.00	27.01
	2114	CA	MET	В	692	46.833	31.077	21.464	1.00	28.55
	2115	C	MET	В	692	45.605	31.584	20.723	1.00	28.03
	2116	0	MET	В	692	44.955	32.535	21.154	1.00	29.01
	2117	СВ	MET	В	692	48.086	31.780	20.922	1.00	34.30
i	2118	CG	MET	В	692	48.009	33.297	21.034	1.00	43.26
	2119	SD	MET	В	692	47.662	33.855	22.730	1.00	60.38
	2120	CE	MET	В	692	47.493	35.639	22.492	1.00	57.28
	2121		SER	В	693	45.300	30.936	19.609	1.00	30.34
)	2122	N CA	SER	В	693	44.153	31.288	18.782	1.00	33.29
	2123	CA	SER	В	693	42.802	31.154	19.478	1.00	31.49
	2124	0	SER	В	693	41.906	31.971	19.269	1.00	31.71
5	2125	СВ	SER	В	693	44.140	30.404	17.534	1.00	35.00
	2126	OG	SER	В	693	42.924	30.567	16.829	1.00	53.17
	2127	N	ILE	В	694	42.652	30.124	20.308	1.00	30.50
	2128	CA	ILE	В	694	41.380	29.891	20.983	1.00	29.73
10	2129	CA	ILE	В	694	41.282	30.457	22.389	1.00	29.02
	2130	0	ILE	В	694	40.279	30.258	23.066	1.00	27.58
	2131	СВ	ILE	В	694	41.043	28.375	21.043	1.00	28.72
35	2132	CG1	ILE	В	694	42.051	27.648	21.929	1.00	26.83
	2133	CG2	ILE	В	694	41.070	27.780	19.626	1.00	26.41
	2134	CD1	ILE	В	694	41.753	26.158	22.140	1.00	25.75
	2135	N N	GLU	В	695	42.318	31.160	22.832	1.00	28.38
40	2136	CA	GLU	В	695	42.300	31.744	24.166	1.00	34.30
	2137	C	GLU	В	695	41.148	32.745	24.219	1.00	32.52
	2138	0	GLU	В	695	40.968	33.533	23.302	1.00	40.3
45	2139	+	GLU	В	695	43.609	32.484	24.445	1.00	34.4
	2140		GLU	В	695	43.717	+	25.870	1.00	44.1
	2141		GLU	В	695		+	26.819	1.00	46.1
50	2142		GLU	В	695	+		26.682	1.00	34.6
50	2143		GLU	В	695			27.718	1.00	55.0
	2144		PRO	В			+	25.298	1.00	35.6
	2145		PRO	В				25.460	1.00	33.0
55	2146	 	PRO	В				25.452	1.00	38.7
	2147		PRO	В				25.834	1.00	31.4

TABLE 10 (continued)

		THREE	E-DIMENSION			(continue		EX WITH PG	 }	
	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	осс	В	ATOM
5	2149	СВ	PRO	В	696	38.633	33.216	26.808	1.00	33.87
	2150	CG	PRO	В	696	38.988	31.725	26.849	1.00	42.63
	2151	CD	PRO	В	696	40.449	31.833	26.461	1.00	33.91
10	2152	N	ASP	В	697	38.660	35.961	25.016	1.00	37.09
,,	2153	CA	ASP	В	697	38.896	37.392	24.995	1.00	40.83
	2154	С	ASP	В	697	38.697	37.865	26.445	1.00	41.22
	2155	0	ASP	В	697	38.208	37.108	27.281	1.00	31.86
15	2156	СВ	ASP	В	697	37.881	38.064	24.070	1.00	51.77
	2157	CG	ASP	В	697	38.345	39.419	23.581	1.00	50.70
	2158	OD1	ASP	В	697	38.620	40.306	24.416	1.00	65.14
20	2159	OD2	ASP	В	697	38.437	39.595	22.352	1.00	58.30
	2160	N	VAL	В	698	39.086	39.099	26.752	1.00	40.92
	2161	CA	VAL	В	698	38.925	39.600	28.115	1.00	39.77
	2162	С	VAL	В	698	37.462	39.569	28.523	1.00	36.77
25	2163	0	VAL	В	698	36.567	39.817	27.710	1.00	39.48
	2164	СВ	VAL	В	698	39.463	41.044	28.271	1.00	47.15
	2165	CG1	VAL	В	698	40.986	41.049	28.157	1.00	51.98
30	2166	CG2	VAL	В	698	38.851	41.948	27.206	1.00	44.01
	2167	N	ILE	В	699	37.216	39.238	29.784	1.00	34.12
	2168	CA	ILE	В	699	35.857	39.178	30.305	1.00	25.82
35	2169	С	ILE	В	699	35.728	40.202	31.421	1.00	30.49
	2170	0	ILE	В	699	36.616	40.315	32.264	1.00	26.57
	2171	СВ	ILE	В	699	35.550	37.758	30.841	1.00	28.35
	2172	CG1	ILE	В	699	35.595	36.770	29.677	1.00	28.39
40	2173	CG2	ILE	В	699	34.198	37.731	31.553	1.00	25.63
	2174	CD1	ILE	В	699	35.451	35.322	30.072	1.00	35.91
	2175	N	TYR	В	700	34.631	40.956	31.408	1.00	29.91
45	2176	CA	TYR	В	700	34.369	41.975	32.422	1.00	32.17
	2177	С	TYR	В	700	33.522	41.412	33.561	1.00	32.19
	2178	0	TYR	В	700	32.717	40.511	33.357	1.00	33.61
	2179	СВ	TYR	В	700	33.629	43.152	31.793	1.00	37.36
50	2180	CG	TYR	В	700	34.433	43.900	30.760	1.00	44.51
	2181	CD1	TYR	В	700	35.387	44.848	31.134	1.00	48.38
	2182	CD2	TYR	В	700	34.267	43.635	29.402	1.00	49.71
55	2183	CE1	TYR	В	700	36.154	45.515	30.170	1.00	52.90
	2184	CE2	TYR	В	700	35.025	44.290	28.438	1.00	52.02
	2185	CZ	TYR	В	700	35.966	45.227	28.823	1.00	54.03

TABLE 10 (continued)

				TA	BLE	10 (0	continued)	COMPLET	x WITH PG			
[THREE	-DIMENSION	AL CC			ES OF PI	IN	Z	occ	В	AT	ОМ
ŀ	ATOM	ATOM TYPE	RESIDUE	#	├		Y		862	27.854	1.00	59	.25
5	2186	ОН	TYR	В	70		36.721		962	34.757	1.00	30	.94
	2187	N	ALA	В			33.695		.509	35.919	1.00	33	.53
	2188	CA	ALA	В	┼	01	32.938		.184	36.006	1.00	36	3.38
10	2189	С	ALA	В		01	31.571		.664	36.657	1.00	33	3.68
	2190	0	ALA	В	-	01	30.657	!	.787	37.204	1.00	30	0.56
	2191	СВ	ALA	В	+-	01	31.435	├	3.333	35.344	1.00	3	4.92
	2192	N	GLY	B	-	02	30.192		1.082	35.396	1.00	3	6.02
15	2193	CA	GLY	B	-	702			4.717	36.766	1.00	3	6.08
	2194	С	GLY	В		702	30.048		4.994	37.224	1.00) 3	5.67
	2195	0	GLY	B		702	28.944 31.178	+-	4.967	37.419	1.00) 3	6.94
20	2196	N	HIS	B		703			5.536	38.759	1.00	5 3	39.32
	2197	CA	HIS	В		703	31.181	+	7.049	38.842	1.00	5 4	13.22
	2198	С	HIS	$\frac{\mid B}{2}$		703	30.955		7.806	38.010	1.0	0 ;	37.01
	2199	0	HIS	_ B	-+-	703	 		5.158	39.460	1.0	0	38.71
25	2200	СВ	HIS	B	-+-	703	32.486		15.614	40.881	1.0	0	36.27
	2201	CG	HIS	B		703	32.561		46.888	41.232	1.0	0	43.46
	2202	ND1	HIS	_ E	\dashv	703	32.950		44.985	42.035	1.0	00	36.91
30	2203	CD2	HIS	E		703		-	47.024	42.543	1.0	00	38.85
	2204	CE1	HIS	\rightarrow	3	703	32.87		45.882	43.054	1.0	00	41.40
	2205	NE2	HIS		3	703	32.44	-	47.471	39.871	1.0	00	46.40
	2200	6 N	ASP		В	704	30.22		48.880	40.097	1.	00	53.26
35	220	7 CA	ASP	-+-	В	704		-+	49,860	39.983	1.	00	53.35
	220	8 C	ASP		В	704	-		50.462	38.932	1.	00	58.50
	220	9 0	ASP		B	704	-	-+	49.051	41.470	1.	.00	61.65
40	221	0 CB	ASP		В	704		-+	48.370	42.592	1	.00	66.85
	221	1 CG	ASP		В	704		+-	47.119	42.619	1	.00	72.50
	221	2 OD1	ASP		В	704			49.082	43.441	1	.00	69.65
	22	13 OD2	ASP		B	704			50.011	41.074	1	.00	55.13
45	22	14 N	ASN		<u>В</u>	705		+	50.922	41.157	- 1	.00	50.42
	22	15 CA	ASN		В	70			52.345	41.457		1.00	54.10
	22	16 C	ASN		B ·	70		+	53.174	41.812		1.00	52.31
50	22	17 O	ASN			70	- 		50.915			1.00	52.40
	22	18 CB	ASN		B 	70			49.646		-+	1.00	47.64
	22	219 CG	ASI			70		296	49.218			1.00	49.26
	22	220 OD1		+	<u>В</u> —	70			49.043			1.00	47.16
55	22	221 ND2						555 236	52.637			1.00	52.08
	2	222 N	TH	R	B		06 31.	236	1				

TABLE 10 (continued)

	THREE	E-DIMENSION	NAL CO	ORDIN	ATES OF P	R IN COMPL	EX WITH PO	;	
ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATO
2223	CA	THR	В	706	30.749	53.976	41.618	1.00	55.
2224	С	THR	В	706	30.386	53.941	43.101	1.00	55.
2225	0	THR	В	706	30.307	54.975	43.765	1.00	59.
2226	СВ	THR	В	706	29.487	54.348	40.815	1.00	52.
2227	OG1	THR	В	706	28.365	53.616	41.319	1.00	50.
2228	CG2	THR	В	706	29.683	54.026	39.332	1.00	55.
2229	N	LYS	В	707	30.151	52.731	43.604	1.00	55.
2230	CA	LYS	В	707	29.821	52.525	45.009	1.00	54.
2231	С	LYS	В	707	31.003	51.934	45.758	1.00	53.
2232	0	LYS	В	707	31.826	51.235	45.168	1.00	54.
2233	СВ	LYS	В	707	28.633	51.577	45.159	1.00	53.
2234	CG	LYS	В	707	27.293	52.225	44.945	1.00	55.
2235	CD	LYS	В	707	26.235	51.395	45.645	1.00	56.
2236	CE	LYS	В	707	25.006	52.230	45.965	1.00	57.
2237	NZ	LYS	В	707	24.065	51.506	46.869	1.00	59.
2238	N	PRO	В	708	31.107	52.214	47.067	1.00	50.
2239	CA	PRO	В	708	32.195	51.699	47.906	1.00	49.
2240	С	PRO	В	708	32.080	50.185	48.100	1.00	46.
2241	0	PRO	В	708	30.975	49.653	48.229	1.00	48.
2242	СВ	PRO	В	708	31.995	52.459	49.219	1.00	52.
2243	CG	PRO	В	708	31.253	53.731	48.769	1.00	52.
2244	CD	PRO	В	708	30.238	53.087	47.870	1.00	51.
2245	N	ASP	В	709	33.219	49.498	48.123	1.00	46.
2246	CA	ASP	В	709	33.248	48.044	48.306	1.00	41.
2247	С	ASP	В	709	32.628	47.602	49.618	1.00	41.0
2248	0	ASP	В	709	32.739	48.285	50.628	1.00	36.2
2249	СВ	ASP	В	709	34.684	47.505	48.321	1.00	45.7
2250	CG	ASP	В	709	35.362	47.559	46.974	1.00	49.8
2251	OD1	ASP	В	709	34.697	47.848	45.957	1.00	50.4
2252	OD2	ASP	В	709	36.582	47.291	46.946	1.00	47.3
2253	N	THR	В	710	31.984	46.441	49.588	1.00	38.
2254	CA	THR	В	710	31.413	45.831	50.780	1.00	38.5
2255	Ċ	THR	В	710	31.761	44.366	50.535	1.00	40.
2256	0	THR	В	710	31.870	43.941	49.383	1.00	34.3
2257	СВ	THR	В	710	29.874	45.995	50.881	1.00	41.9
2258	OG1	THR	В	710	29.228	45.193	49.887	1.00	44.3
2259	CG2	THR	В	710	29.481	47.454	50.679	1.00	48.0

TABLE 10 (continued)

		THREE	E-DIMENSION			TES OF P		EX WITH PG	· · · · · · · · · · · · · · · · · · ·	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	2260	N	SER	В	711	31.971	43.605	51.598	1.00	36.89
	2261	CA	SER	В	711	32.320	42.200	51.449	1.00	43.49
	2262	С	SER	В	711	31.361	41.476	50.522	1.00	41.27
10	2263	0	SER	В	711	31.780	40.718	49.647	1.00	43.17
	2264	СВ	SER	В	711	32.304	41.500	52.807	1.00	40.05
	2265	OG	SER	В	711	32.541	40.115	52.642	1.00	53.25
	2266	N	SER	В	712	30.069	41.717	50.709	1.00	40.73
15	2267	CA	SER	В	712	29.069	41.041	49.897	1.00	38.79
	2268	С	SER	В	712	29.018	41.457	48.434	1.00	37.75
	2269	0	SER	В	712	28.812	40.601	47.578	1.00	32.93
20	2270	СВ	SER	В	712	27.680	41.185	50.528	1.00	40.76
	2271	OG	SER	В	712	27.288	42.541	50.611	1.00	52.08
	2272	N	SER	В	713	29.207	42.744	48.136	1.00	31.42
	2273	CA	SER	В	713	29.151	43.196	46.744	1.00	30.39
25	2274	С	SER	В	713	30.384	42.769	45.962	1.00	26.79
	2275	0	SER	В	713	30.287	42.444	44.787	1.00	27.38
	2276	СВ	SER	В	713	28.991	44.725	46.651	1.00	32.46
30	2277	OG	SER	В	713	30.115	45.404	47.190	1.00	37.41
	2278	N	LEU	В	714	31.539	42.777	46.620	1.00	26.90
	2279	CA	LEU	В	714	32.796	42.386	45.989	1.00	23.45
35	2280	С	LEU	В	714	32.815	40.878	45.691	1.00	25.66
55	2281	0	LEU	В	714	33.186	40.465	44.592	1.00	24.25
	2282	СВ	LEU	В	714	33.959	42.750	46.908	1.00	30.39
	2283	CG	LEU	В	714	35.393	42.649	46.411	1.00	38.20
40	2284	CD1	LEU	В	714	35.557	43.398	45.091	1.00	41.76
	2285	CD2	LEU	В	714	36.309	43.239	47.491	1.00	35.78
	2286	N	LEU	В	715	32.436	40.055	46.666	1.00	20.32
45	2287	CA	LEU	В	715	32ְ.409	38.607	46.435	1.00	24.51
	2288	С	LEU	В	715	31.303	38.257	45.423	1.00	23.41
	2289	0	LEU	В	715	31.449	37.350	44.615	1.00	19.77
	2290	СВ	LEU	В	715	32.219	37.855	47.757	1.00	23.31
50	2291	CG	LEU	В	715	33.439	37.895	48.691	1.00	25.25
	2292	CD1	LEU	В	715	33.075	37.397	50.065	1.00	26.50
	2293	CD2	LEU	В	715	34.583	37.067	48.089	1.00	22.19
55	2294	N	THR	В	716	30.204	38.998	45.447	1.00	22.64
	2295	CA	THR	В	716	29.123	38.728	44.496	1.00	23.68
	2296	С	THR	В	716	29.605	39.054	43.073	1.00	22.06

		THREE	-DIMENSION	IAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PG	i	,
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	2297	0	THR	В	716	29.319	38.314	42.134	1.00	22.59
	2298	СВ	THR	В	716	27.839	39.535	44.901	1.00	20.94
	2299	OG1	THR	В	716	27.329	39.003	46.134	1.00	25.72
10	2300	CG2	THR	В	716	26.765	39.459	43.820	1.00	28.64
	2301	N	SER	В	717	30.358	40.151	42.908	1.00	23.37
	2302	CA	SER	В	717	30.884	40.496	41.596	1.00	25.88
45	2303	С	SER	В	717	31.927	39.474	41.153	1.00	21.32
15	2304	0	SER	В	717	32.008	39.144	39.976	1.00	21.40
	2305	СВ	SER	В	717	31.527	41.897	41.581	1.00	27.55
:	2306	OG	SER	В	717	30.537	42.909	41.675	1.00	37.69
20	2307	N	LEU	В	718	32.738	38.991	42.083	1.00	19.85
	2308	CA	LEU	В	718	33.732	37.996	41.714	1.00	21.19
	2309	С	LEU	В	718	33.004	36.746	41.234	1.00	21.11
25	2310	0	LEU	В	718	33.440	36.099	40.286	1.00	21.04
23	2311	СВ	LEU	В	718	34.661	37.675	42.889	1.00	22.44
	2312	CG	LEU	В	718	35.709	38.750	43.211	1.00	24.98
	2313	CD1	LEU	В	718	36.442	38.413	44.499	1.00	24.73
30	2314	CD2	LEU	В	718	36.702	38.848	42.067	1.00	24.25
	2315	N	ASN	В	719	31.887	36.407	41.879	1.00	22.37
	2316	CA	ASN	В	719	31.129	35.242	41.445	1.00	17.98
35	2317	С	ASN	В	719	30.495	35.418	40.073	1.00	18.99
	2318	0	ASN	В	719	30.393	34.461	39.328	1.00	20.78
	2319	СВ	ASN	В	719	30.032	34.862	42.446	1.00	18.41
	2320	CG	ASN	В	719	30.586	34.171	43.658	1.00	24.20
40	2321	OD1	ASN	В	719	31.629	33.518	43.574	1.00	28.51
	2322	ND2	ASN	В	719	29.885	34.262	44.778	1.00	22.40
	2323	N	GLN	В	720	30.035	36.628	39.759	1.00	22.71
45	2324	CA	GLN	В	720	29.445	36.900	38.463	1.00	23.51
	2325	С	GLN	В	720	30.557	36.762	37.417	1.00	23.71
	2326	0	GLN	В	720	30.354	36.212	36.338	1.00	24.20
	2327	СВ	GLN	В	720	28.839	38.309	38.448	1.00	22.72
50	2328	CG	GLN	В	720	28.243	38.715	37.116	1.00	29.98
	2329	CD	GLN	В	720	27.325	39.924	37.231	1.00	35.29
	2330	OE1	GLN	В	720	26.217	39.831	37.754	1.00	33.28
55	2331	NE2	GLN	В	720	27.797	41.071	36.759	1.00	37.20
	2332	N	LEU	В	721	31.744	37.249	37.764	1.00	22.80
	2333	CA	LEU	В	721	32.891	37.143	36.874	1.00	18.97

TABLE 10 (continued)

		THREE	-DIMENSION	IAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG	i	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	2334	С	LEU	В	721	33.197	35.652	36.683	1.00	23.82
	2335	0	LEU	В	721	33.417	35.172	35.566	1.00	22.42
	2336	СВ	LEU	В	721	34.096	37.866	37.498	1.00	21.95
10	2337	CG	LEU	В	721	35.387	37.769	36.696	1.00	20.86
	2338	CD1	LEU	В	721	35.162	38.452	35.346	1.00	22.61
	2339	CD2	LEU	В	721	36.537	38.433	37.453	1.00	19.99
	2340	N	GLY	В	722	33.219	34.925	37.793	1.00	18.60
15	2341	CA	GLY	В	722	33.464	33.495	37.739	1.00	21.51
	2342	С	GLY	В	722	32.497	32.793	36.807	1.00	22.85
	2343	0	GLY	В	722	32.888	31.928	36.019	1.00	21.10
20	2344	N	GLU	В	723	31.225	33.174	36.889	1.00	20.92
	2345	CA	GLU	В.	723	30.187	32.582	36.044	1.00	22.44
	2346	С	GLU	В	723	30.514	32.814	34.570	1.00	22.88
25	2347	0	GLU	В	723	30.448	31.895	33.766	1.00	22.34
25	2348	СВ	GLU	В	723	28.830	33.219	36.370	1.00	28.49
	2349	CG	GLU	В	723	27.635	32.646	35.614	1.00	29.16
	2350	CD	GLU	В	723	27.225	31.269	36.108	1.00	48.36
30	2351	OE1	GLU	В	723	28.005	30.666	36.876	1.00	43.10
	2352	OE2	GLU	В	723	26.126	30.784	35.726	1.00	39.94
	2353	N	ARG	В	724	30.858	34.054	34.225	1.00	20.90
25	2354	CA	ARG	В	724	31.185	34.389	32.846	1.00	24.02
35	2355	С	ARG	В	724	32.431	33.652	32.389	1.00	24.96
	2356	0	ARG	В	724	32.512	33.179	31.260	1.00	21.65
	2357	СВ	ARG	В	724	31.417	35.884	32.712	1.00	27.26
40	2358	CG	ARG	В	724	30.227	36.735	33.040	1.00	26.22
	2359	CD	ARG	В	724	30.661	38.187	33.084	1.00	29.11
	2360	NE	ARG	В	724	29.636	39.091	33.592	1.00	39.88
45	2361	CZ	ARG	В	724	28.566	39.475	32.905	1.00	47.37
40	2362	NH1	ARG	В	724	28.370	39.029	31.668	1.00	54.23
	2363	NH2	ARG	В	724	27.708	40.329	33.445	1.00	44.85
	2364	N	GLN	В	725	33.419	33.573	33.267	1.00	20.98
50	2365	CA	GLN	В	725	34.631	32.866	32.910	1.00	24.59
	2366	С	GLN	В	725	34.372	31.378	32.750	1.00	26.24
	2367	0	GLN	В	725	35.002	30.735	31.912	1.00	23.92
55	2368	СВ	GLN	В	725	35.712	33.097	33.958	1.00	22.57
	2369	CG	GLN	В	725	36.411	34.427	33.771	1.00	29.09
	2370	CD	GLN	В	725	37.471	34.675	34.813	1.00	34.68

		THREE	E-DIMENSION	NAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PG	i -	
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	2371	OE1	GLN	В	725	38.060	33.730	35.349	1.00	34.94
	2372	NE2	GLN	В	725	37.749	35.944	35.089	1.00	31.50
	2373	N	LEU	В	726	33.452	30.834	33.544	1.00	22.27
10	2374	CA	LEV	В	726	33.141	29.411	33.450	1.00	22.12
	2375	С	LEU	В	726	32.524	29.133	32.077	1.00	22.14
	2376	0	LEU	В	726	32.838	28.124	31.433	1.00	19.87
15	2377	СВ	LEU	В	726	32.197	28.991	34.585	1.00	21.36
15	2378	CG	LEU	В	726	31.870	27.503	34.717	1.00	28.83
	2379	CD1	LEU	В	726	33.166	26.696	34.750	1.00	26.29
	2380	CD2	LEU	В	726	31.042	27.265	35.999	1.00	27.99
20	2381	N	LEU	В	727	31.652	30.023	31.619	1.00	21.02
	2382	CA	LEU	В	727	31.059	29.837	30.301	1.00	25.96
	2383	С	LEU	В	727	32.150	29.841	29.230	1.00	25.51
25	2384	0	LEU	В	727	32.080	29.064	28.266	1.00	20.92
	2385	CB	LEU	В	727	30.055	30.948	29.985	1.00	29.25
	2386	CG	LEU	В	727	28.749	30.917	30.766	1.00	39.65
	2387	CD1	LEU	В	727	27.887	32.091	30.358	1.00	38.17
30	2388	CD2	LEU	В	727	28.028	29.603	30.492	1.00	38.71
	2389	N	SER	В	728	33.159	30.701	29.407	1.00	22.52
	2390	CA	SER	В	728	34.247	30.790	28.442	1.00	25.41
35	2391	С	SER	В	728	35.132	29.550	28.475	1.00	22.52
į	2392	0	SER	В	728	35.628	29.129	27.438	1.00	19.75
	2393	СВ	SER	В	728	35.088	32.069	28.644	1.00	28.09
	2394	OG	SER	В	728	35.801	32.055	29.860	1.00	44.44
40	2395	N	VAL	В	729	35.337	28.982	29.665	1.00	20.70
	2396	CA	VAL	В	729	36.107	27.739	29.814	1.00	20.20
ļ	2397	С	VAL	В	729	35.413	26.610	29.050	1.00	16.88
45	2398	0	VAL	В	729	36.066	25.812	28.386	1.00	19.20
	2399	СВ	VAL	В	729	36.215	27.328	31.297	1.00	20.97
	2400	CG1	VAL	В	729	36.711	25.900	31.440	1.00	22.68
]	2401	CG2	VAL	В	729	37.177	28.284	32.010	1.00	26.21
50	2402	N	VAL	В	730	34.092	26.523	29.154	1.00	18.77
]	2403	CA	VAL	В	730	33.400	25.461	28.434	1.00	20.28
	2404	С	VAL	В	730	33.605	25.648	26.931	1.00	18.42
55	2405	0	VAL	В	730	33.973	24.706	26.239	1.00	21.52
	2406	СВ	VAL	В	730	31.901	25.420	28.772	1.00	21.49
	2407	CG1	VAL	В	730	31.228	24.300	27.947	1.00	25.40

TABLE 10 (continued)

						(continued		EY WITH PG		
1			-DIMENSION					occ	В	ATOM
_	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z		1.00	24.07
5	2408	CG2	VAL	В	730	31.721	25.149	30.252		22.29
	2409	N	LYS	В	731	33.397	26.870	26.442	1.00	22.29
	2410	CA	LYS	В	731	33.591	27.195	25.024	1.00	22.82
10	2411 1	С	LYS	В	731	35.017	26.824	24.589	1.00	20.83
	2412	0	LYS	В	731	35.231	26.168	23.567	1.00	
	2413	СВ	LYS	В	731	33.358	28.695	24.816	1.00	27.41
	2414	CG	LYS	В	731	33.541	29.215	23.377	1.00	33.69
15	2415	CD	LYS	В	731	32.513	28.628	22.415	1.00	42.24
	2416	CE	LYS	В	731	32.628	29.239	21.010	1.00	43.85
	2417	NZ	LYS	В	731	33.961	29.015	20.381	1.00	43.69
20	2418	N	TRP	В	732	35.999	27.266	25.372	1.00	19.99
	2419	CA	TRP	В	732	37.401	26.981	25.106	1.00	20.03
	2420	С	TRP	В	732	37.668	25.471	25.013	1.00	22.42
	2421	0	TRP	В	732	38.343	25.003	24.098	1.00	21.10
25	2422	СВ	TRP	В	732	38.242	27.603	26.233	1.00	21.24
	2423	CG	TRP	В	732	39.702	27.242	26.283	1.00	23.70
	2424	CD1	TRP	В	732	40.696	27.670	25.444	1.00	24.42
30	2425	CD2	TRP	В	732	40.336	26.404	27.260	1.00	25.32
	2426	NE1	TRP	В	732	41.906	27.154	25.843	1.00	24.62
	2427	CE2	TRP	В	732	41.715	26.373	26.954	1.00	23.58
	2428	CE3	TRP	В	732	39.869	25.677	28.368	1.00	23.75
35	2429	CZ2	TRP	В	732	42.640	25.640	27.716	1.00	21.37
	2430	CZ3	TRP	В	732	40.794	24.946	29.131	1.00	25.72
	2431	CH2	TRP	В	732	42.160	24.935	28.797	1.00	25.44
40	2432	N	SER	В	733	37.122	24.710	25.953	1.00	20.29
	2433	CA	SER	В	733	37.354	23.263	25.985	1.00	17.86
	2434	С	SER	В	733	36.817	22.570	24.725	1.00	17.55
	2435	0	SER	В	733	37.352	21.539	24.298	1.00	19.01
45	2436	СВ	SER	В	733	36.718	22.637	27.246	1.00	21.68
	2437	OG	SER	В	733	35.305	22.650	27.205	1.00	23.79
	2438	N	LYS	В	734	35.777	23.160	24.133	1.00	21.12
50	2439	CA	LYS	В	734	35.179	22.608	22.917	1.00	19.68
	2440	С	LYS	В	734	36.090	22.818	21.712	1.00	20.73
	2441	0	LYS	В	734	35.969	22.107	20.715	1.00	22.12
_	2442	СВ	LYS	В	734	33.825	23.256	22.623	1.00	24.55
55	2443	CG	LYS	В	734	32.716	22.963	23.615	1.00	32.49
	2444		LYS	В	734	31.394	23.451	23.040	1.00	42.26
	L									

		THREE	E-DIMENSION			(continue		EX WITH PG	· · · · · · · · · · · · · · · · · · ·	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	осс	В	ATOM
5	2445	CE	LYS	В	734	30.205	23.137	23.936	1.00	40.61
	2446	NZ	LYS	В	734	30.231	23.960	25.168	1.00	48.42
	2447	N	SER	В	735	37.000	23.788	21.806	1.00	19.46
10	2448	CA	SER	В	735	37.937	24.086	20.721	1.00	23.70
	2449	С	SER	В	735	39.327	23.512	21.008	1.00	22.09
	2450	0	SER	В	735	40.174	23.495	20.142	1.00	24.41
	2451	СВ	SER	В	735	38.086	25.597	20.521	1.00	27.76
15	2452	OG	SER	В	735	36.848	26.243	20.279	1.00	31.96
	2453	N	LEU	В	736	39.535	23.048	22.232	1.00	23.63
	2454	CA	LEU	В	736	40.817	22.494	22.665	1.00	20.47
20	2455	С	LEU	В	736	41.113	21.140	22.021	1.00	21.67
	2456	0	LEU	В	736	40.393	20.170	22.231	1.00	22.30
	2457	СВ	LEU	В	736	40.801	22.353	24.184	1.00	22.13
25	2458	CG	LEU	В	736	42.046	21.828	24.877	1.00	25.58
25	2459	CD1	LEU	В	736	43.226	22.778	24.641	1.00	24.77
	2460	CD2	LEU	В	736	41.735	21.702	26.376	1.00	24.96
	2461	N	PRO	В	737	42.192	21.058	21.227	1.00	24.15
30	2462	CA	PRO	В	737	42.559	19.806	20.561	1.00	27.85
	2463	С	PRO	В	737	42.607	18.605	21.497	1.00	29.75
	2464	0	PRO	В	737	43.323	18.596	22.514	1.00	25.17
35	2465	СВ	PRO	В	737	43.923	20.136	19.967	1.00	31.60
	2466	CG	PRO	В	737	43.757	21.565	19.610	1.00	24.35
	2467	CD	PRO	В	737	43.177	22.102	20.900	1.00	27.34
	2468	N	GLY	В	738	41.809	17.605	21.149	1.00	25.39
40	2469	CA	GLY	В	738	41.747	16.381	21.916	1.00	26.62
	2470	С	GLY	В	738	40.624	16.272	22.931	1.00	23.45
	2471	0	GLY	В	738	40.090	15.194	23.141	1.00	26.46
45	2472	N	PHE	В	739	40.229	17.383	23.539	1.00	24.87
	2473	CA	PHE	В	739	39.218	17.335	24.585	1.00	19.47
	2474	С	PHE	В	739	37.860	16.782	24.178	1.00	25.30
	2475	0	PHE	В	739	37.301	15.944	24.874	1.00	21.67
50	2476	СВ	PHE	В	739	39.015	18.714	25.175	1.00	17.19
	2477	CG	PHE	В	739	38.439	18.692	26.559	1.00	23.41
İ	2478	CD1	PHE	В	739	39.182	18.176	27.617	1.00	28.09
55	2479	CD2	PHE	В	739	37.178	19.218	26.814	1.00	25.22
	2480	CE1	PHE	В	739	38.674	18.200	28.907	1.00	26.53
	2481	CE2	PHE	В	739	36.662	19.245	28.109	1.00	23.43

5	ATOM 0482	ATOM TYPE	-DIMENSION	IAL CO	ORDINA	I ES OF F	N IN COMI L	LX WIIIII G		
		ATOM TYPE I				V	Z	occ	в	ATOM
	2402		RESIDUE	#	X	Y		29.152	1.00	27.21
1	2482	CZ	PHE	В	739	37.413	18.738	23.055	1.00	23.16
-	2483	N	ARG	В	740	37.329	17.252		1.00	24.65
_	2484	CA	ARG	В	740	36.008	16.801	22.599		26.61
10	2485	С	ARG	В	740	35.942	15.298	22.331	1.00	32.12
_	2486	0	ARG	В	740	34.854	14.739	22.213	1.00	
	2487	СВ	ARG	В	740	35.607	17.534	21.318	1.00	22.44
15	2488	CG	ARG	В	740	36.578	17.308	20.173	1.00	25.67
,, L	2489	CD	ARG	В	740	36.001	17.852	18.873	1.00	25.78
	2490	NE	ARG	В	740	36.906	17.610	17.757	1.00	22.52
-	2491	CZ	ARG	В	740	36.605	17.907	16.497	1.00	27.51
20	2492	NH1	ARG	В	740	35.428	18.444	16.212	1.00	25.90
	2493	NH2	ARG	В	740	37.473	17.658	15.532	1.00	24.02
	2494	N	ASN	В	741	37.102	14.654	22.236	1.00	24.93
05	2495	CA	ASN	В	741	37.147	13.229	21.956	1.00	27.05
25	2496	С	ASN	В	741	37.072	12.358	23.206	1.00	28.80
	2497	0	ASN	В	741	37.020	11.136	23.109	1.00	27.35
	2498	СВ	ASN	В	741	38.392	12.925	21.134	1.00	29.54
30	2499	CG	ASN	В	741	38.408	13.689	19.821	1.00	28.39
	2500	OD1	ASN	В	741	39.465	14.059	19.312	1.00	29.43
	2501	ND2	ASN	В	741	37.226	13.916	19.263	1.00	25.86
[2502	N	LEU	В	742	37.069	12.989	24.379	1.00	27.36
35	2503	CA	LEU	В	742	36.922	12.258	25.632	1.00	26.94
	2504	С	LEU	В	742	35.414	12.108	25.808	1.00	25.47
	2505	0	LEU	В	742	34.648	12.905	25.273	1.00	27.23
40	2506	СВ	LEU	В	742	37.491	13.064	26.813	1.00	23.76
	2507	CG	LEU	В	742	38.995	13.350	26.739	1.00	25.50
	2508	CD1	LEU	В	742	39.449	14.126	27.976	1.00	29.97
	2509	CD2	LEU	В	742	39.751	12.040	26.658	1.00	28.27
45	2510	N	HIS	В	743	34.987	11.088	26.542	1.00	22.87
	2511	CA	HIS	В	743	33.565	10.873	26.786	1.00	26.83
<u> </u>	2512	С	HIS	В	743	33.009	12.167	27.392	1.00	26.76
50	2513	0	HIS	В	743	33.701	12.835	28.171	1.00	24.67
ļ	2514	СВ	HIS	В	743	33.402	9.691	27.741	1.00	30.89
ļ	2515	CG	HIS	В	743	31.996	9.201	27.874	1.00	35.28
<u> </u>	2516	ND1	HIS	В	743	31.008	9.918	28.515	1.00	36.31
55	2517	CD2	HIS	В	743	31.410	8.057	27.443	1.00	38.01
ļ	2518	CE1	HIS	В	743	29.875	9.238	28.473	1.00	41.45

		THREE	-DIMENSION	NAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG	i	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	2519	NE2	HIS	В	743	30.093	8.105	27.828	1.00	34.92
	2520	N	ILE	В	744	31.784	12.541	27.018	1.00	25.83
	2521	CA	ILE	В	744	31.172	13.769	27.536	1.00	28.41
10	2522	С	ILE	В	744	31.205	13.806	29.068	1.00	27.71
	2523	0	ILE	В	744	31.410	14.868	29.669	1.00	25.71
	2524	СВ	ILE	В	744	29.695	13.919	27.053	1.00	29.59
45	2525	CG1	ILE	В	744	29.082	15.205	27.610	1.00	37.61
15	2526	CG2	ILE	В	744	28.869	12.710	27.499	1.00	32.16
	2527	CD1	ILE	В	744	29.747	16.482	27.116	1.00	40.77
	2528	N	ASP	В	745	31.006	12.658	29.711	1.00	25.28
20	2529	CA	ASP	В	745	31.037	12.657	31.168	1.00	26.77
	2530	С	ASP	В	745	32.424	13.001	31.733	1.00	29.51
	2531	0	ASP	В	745	32.524	13.657	32.780	1.00	24.05
05	2532	СВ	ASP	В	745	30.544	11.318	31.722	1.00	35.05
25	2533	CG	ASP	В	745	29.068	11.075	31.418	1.00	36.78
	2534	OD1	ASP	В	745	28.266	12.015	31.582	1.00	47.93
	2535	OD2	ASP	В	745	28.707	9.946	31.033	1.00	51.31
30	2536	N	ASP	В	746	33.492	12.557	31.062	1.00	24.59
	2537	CA	ASP	В	746	34.836	12.900	31.536	1.00	25.82
	2538	С	ASP	В	746	35.098	14.400	31.324	1.00	24.98
<i>35</i>	2539	0	ASP	В	746	35.762	15.049	32.130	1.00	23.59
55	2540	СВ	ASP	В	746	35.935	12.125	30.804	1.00	27.37
	2541	CG	ASP	В	746	35.774	10.616	30.908	1.00	35.48
	2542	OD1	ASP	В	746	35.307	10.109	31.957	1.00	33.88
40	2543	OD2	ASP	В	746	36.155	9.937	29.933	1.00	34.19
	2544	N	GLN	В	747	34.597	14.948	30.222	1.00	23.17
	2545	CA	GLN	В	747	34.794	16.367	29.946	1.00	23.00
45	2546	С	GLN	В	747	34.183	17.197	31.056	1.00	19.52
	2547	0	GLN	В	747	34.805	18.141	31.563	1.00	21.92
	2548	СВ	GLN	В	747	34.139	16.761	28.617	1.00	20.19
	2549	CG	GLN	В	747	34.774	16.122	27.398	1.00	18.51
50	2550	CD	GLN	В	747	34.103	16.560	26.104	1.00	29.12
	2551	OE1	GLN	В	747	33.915	17.747	25.876	1.00	22.13
ĺ	2552	NE2	GLN	В	747	33.760	15.601	25.243	1.00	22.48
55	2553	N	ILE	В	748	32.948	16.855	31.415	1.00	20.67
	2554	CA	ILE	В	748	32.247	17.575	32.454	1.00	24.05
	2555	С	ILE	В	748	32.978	17.422	33.766	1.00	23.11

TABLE 10 (continued)

[THREE	-DIMENSION	IAL CO	ORDINA	TES OF P	R IN COMPLI	EX WITH PG	_	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	2556	0	ILE	В	748	33.196	18.404	34.471	1.00	20.45
	2557	СВ	ILE	В	748	30.802	17.085	32.581	1.00	24.48
	2558	CG1	ILE	В	748	30.032	17.501	31.328	1.00	28.95
10	2559	CG2	ILE	В	748	30.146	17.674	33.830	1.00	28.57
	2560	CD1	ILE	В	748	28.623	16.921	31.244	1.00	37.34
	2561	N	THR	В	749	33.388	16.200	34.076	1.00	19.37
	2562	CA	THR	В	749	34.108	15.961	35.320	1.00	22.97
15	2563	С	THR	В	749	35.404	16.768	35.376	1.00	19.50
	2564	0	THR	В	749	35.698	17.391	36.390	1.00	20.73
	2565	СВ	THR	В	749	34.439	14.464	35.492	1.00	27.90
20	2566	OG1	THR	В	749	33.218	13.724	35.603	1.00	30.62
!	2567	CG2	THR	В	749	35.269	14.238	36.742	1.00	31.03
	2568	N	LEU	В	750	36.170	16.780	34.286	1.00	19.81
	2569	CA	LEU	В	750	37.433	17.526	34.295	1.00	20.44
25	2570	С	LEU	В	750	37.232	19.026	34.495	1.00	23.24
	2571	0	LEU	В	750	38.015	19.676	35.186	1.00	17.97
	2572	СВ	LEU	В	750	38.223	17.259	33.002	1.00	23.58
30	2573	CG	LEU	В	750	38.682	15.795	32.882	1.00	22.85
	2574	CD1	LEU	В	750	39.218	15.509	31.477	1.00	22.39
	2575	CD2	LEU	В	750	39.776	15.524	33.922	1.00	26.05
05	2576	N	ILE	В	751	36.193	19.587	33.881	1.00	16.58
35	2577	CA	ILE	В	751	35.930	21.000	34.061	1.00	19.30
	2578	С	ILE	В	751	35.486	21.264	35.503	1.00	19.20
	2579	0	ILE	В	751	35.894	22.258	36.112	1.00	20.53
40	2580	СВ	ILE	В	751	34.862	21.477	33.064	1.00	19.73
	2581	CG1	ILE	В	751	35.477	21.535	31.655	1.00	17.39
	2582	CG2	ILE	В	751	34.333	22.842	33.474	1.00	19.69
45	2583	CD1	ILE	В	751	34.453	21.888	30.553	1.00	25.86
45	2584	N	GLN	В	752	34.649	20.377	36.039	1.00	17.90
	2585	CA	GLN	В	752	34.167	20.524	37.407	1.00	19.84
	2586	С	GLN	В	752	35.290	20.395	38.424	1.00	22.37
50	2587	0	GLN	В	752	35.241	21.000	39.485	1.00	20.97
	2588	СВ	GLN	В	752	33.067	19.502	37.702	1.00	23.55
	2589	CG	GLN	В	752	31.771	19.857	36.983	1.00	23.27
55	2590	CD	GLN	В	752	30.646	18.872	37.223	1.00	27.86
55	2591	OE1	GLN	В	752	29.481	19.154	36.920	1.00	30.08
	2592	NE2	GLN	В	752	30.980	17.714	37.735	1.00	21.11

TABLE 10 (continued)

		THREE	-DIMENSION	NAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PG	;	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	осс	В	ATOM
5	2593	N	TYR	В	753	36.299	19.588	38.102	1.00	16.66
	2594	CA	TYR	В	753	37.444	19.437	39.013	1.00	21.25
	2595	С	TYR	В	753	38.451	20.586	38.939	1.00	21.49
10	2596	0	TYR	В	753	39.049	20.985	39.945	1.00	28.69
	2597	СВ	TYR	В	753	38.256	18.186	38.682	1.00	19.38
•	2598	CG	TYR	В	753	37.659	16.849	39.059	1.00	26.62
	2599	CD1	TYR	В	753	36.491	16.747	39.813	1.00	24.99
15	2600	CD2	TYR	В	753	38.323	15.668	38.710	1.00	27.30
	2601	CE1	TYR	В	753	36.007	15.502	40.215	1.00	28.65
	2602	CE2	TYR	В	753	37.850	14.432	39.106	1.00	26.34
20	2603	CZ	TYR	В	753	36.707	14.347	39.853	1.00	29.07
	2604	ОН	TYR	В	753	36.282	13.103	40.254	1.00	34.63
	2605	N	SER	В	754	38.639	21.126	37.744	1.00	20.94
25	2606	CA	SER	В	754	39.679	22.122	37.540	1.00	20.30
25	2607	С	SER	В	754	39.318	23.587	37.387	1.00	20.01
	2608	0	SER	В	754	40.218	24.404	37.314	1.00	20.79
	2609	СВ	SER	В	754	40.476	21.734	36.297	1.00	26.89
30	2610	OG	SER	В	754	39.650	21.929	35.155	1.00	24.56
	2611	N	TRP	В	755	38.040	23.943	37.347	1.00	18.81
	2612	CA	TRP	В	755	37.710	25.352	37.136	1.00	21.09
35	2613	С	TRP	В	755	38.414	26.366	38.060	1.00	22.06
	2614	0	TRP	В	755	38.864	27.419	37.598	1.00	21.85
	2615	СВ	TRP	В	755	36.188	25.585	37.199	1.00	19.53
	2616	CG	TRP	В	755	35.576	25.368	38.537	1.00	19.91
40	2617	CD1	TRP	В	755	35.105	24.196	39.045	1.00	22.90
	2618	CD2	TRP	В	755	35.393	26.354	39.557	1.00	24.20
	2619	NE1	TRP	В	755	34.636	24.389	40.323	1.00	25.70
45	2620	CE2	TRP	В	755	34.804	25.707	40.661	1.00	19.09
	2621	CE3	TRP	В	755	35.672	27.728	39.643	1.00	23.21
	2622	CZ2	TRP	В	755	34.486	26.379	41.842	1.00	22.66
	2623	CZ3	TRP	В	755	35.356	28.394	40.811	1.00	25.02
50	2624	CH2	TRP	В	755	34.767	27.720	41.900	1.00	26.92
	2625	N	MET	В	756	38.512	26.084	39.353	1.00	20.39
	2626	CA	MET	В	756	39.169	27.042	40.249	1.00	22.21
55	2627	С	MET	В	756	40.641	27.207	39.885	1.00	18.94
	2628	0	MET	В	756	41.183	28.334	39.891	1.00	21.30
	2629	СВ	MET	В	756	39.051	26.592	41.720	1.00	24.34

TABLE 10 (continued)

		THREE	-DIMENSION	IAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG	i	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	2630	CG	MET	В	756	39.665	27.592	42.706	1.00	22.35
	2631	SD	MET	В	756	38.654	29.079	42.939	1.00	27.19
	2632	CE	MET	В	756	37.316	28.325	43.999	1.00	23.83
10	2633	N	SER	В	757	41.289	26.098	39.556	1.00	20.58
	2634	CA	SER	В	757	42.700	26.133	39.208	1.00	21.19
	2635	С	SER	В	757	42.875	26.932	37.917	1.00	20.60
	2636	0	SER	В	757	43.734	27.793	37.820	1.00	19.30
15	2637	СВ	SER	В	757	43.254	24.702	39.054	1.00	25.76
	2638	OG	SER	В	757	42.837	24.114	37.832	1.00	34.55
	2639	N	LEU	В	758	42.050	26.665	36.915	1.00	18.54
20	2640	CA	LEU	в	758	42.149	27.419	35.678	1.00	20.03
	2641	С	LEU	В	758	41.929	28.915	35.894	1.00	19.30
	2642	0	LEU	В	758	42.652	29.749	35.323	1.00	21.43
25	2643	СВ	LEU	В	758	41.122	26.896	34.667	1.00	20.21
25	2644	CG	LEU	В	758	41.373	25.461	34.198	1.00	25.47
	2645	CD1	LEU	В	758	40.154	24.953	33.419	1.00	26.99
	2646	CD2	LEU	В	758	42.649	25.424	33.351	1.00	22.02
30	2647	N	MET	В	759	40.949	29.282	36.721	1.00	19.96
	2648	CA	MET	В	759	40.679	30.702	36.916	1.00	17.34
	2649	С	MET	В	759	41.713	31.441	37.742	1.00	19.85
35	2650	0	MET	В	759	42.016	32.600	37.455	1.00	21.26
55	2651	СВ	MET	В	759	39.268	30.914	37.491	1.00	21.30
	2652	CG	MET	В	759	38.202	30.434	36.522	1.00	25.18
	2653	SD	MET	В	759	36.495	30.703	37.019	1.00	32.88
40	2654	CE	MET	В	759	35.638	29.677	35.765	1.00	35.46
	2655	N	VAL	В	760	42.282	30.788	38.748	1.00	19.44
	2656	CA	VAL	В	760	43.288	31.476	39.548	1.00	22.37
45	2657	С	VAL	В	760	44.582	31.585	38.723	1.00	23.17
	2658	0	VAL	В	760	45.346	32.547	38.842	1.00	22.82
	2659	СВ	VAL	В	760	43.511	30.753	40.921	1.00	22.03
	2660	CG1	VAL	В	760	44.296	29.450	40.762	1.00	22.24
50	2661	CG2	VAL.	В	760	44.161	31.725	41.908	1.00	26.70
	2662	N	PHE	В	761	44.810	30.611	37.847	1.00	23.09
	2663	CA	PHE	В	761	45.989	30.643	36.989	1.00	24.16
55	2664	С	PHE	В	761	45.832	31.784	35.978	1.00	23.45
ĺ	2665	0	PHE	В	761	46.794	32.493	35.674	1.00	24.87
ĺ	2666	СВ	PHE	В	761	46.128	29.298	36.266	1.00	25.81

		THREE	-DIMENSION	IAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PG		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	осс	В	ATOM
5	2667	CG	PHE	В	761	47.512	29.020	35.741	1.00	25.64
	2668	CD1	PHE	В	761	48.586	28.889	36.616	1.00	25.18
	2669	CD2	PHE	В	761	47.719	28.794	34.383	1.00	19.58
10	2670	CE1	PHE	В	761	49.836	28.528	36.135	1.00	27.13
	2671	CE2	PHE	В	761	48.964	28.430	33.895	1.00	25.89
	2672	CZ	PHE	В	761	50.026	28.294	34.770	1.00	26.79
45	2673	N	GLY	В	762	44.619	31.932	35.445	1.00	26.41
15	2674	CA	GLY	В	762	44.315	32.988	34.493	1.00	22.56
	2675	С	GLY	В	762	44.459	34.341	35.170	1.00	24.22
	2676	0	GLY	В	762	45.005	35.281	34.588	1.00	22.86
20	2677	N	LEU	В	763	43.966	34.441	36.406	1.00	22.38
	2678	CA	LEU	В	763	44.083	35.674	37.186	1.00	20.84
	2679	С	LEU	В	763	45.567	36.032	37.319	1.00	23.50
25	2680	0	LEU	В	763	45.961	37.202	37.183	1.00	23.47
23	2681	СВ	LEU	В	763	43.490	35.476	38.586	1.00	25.56
	2682	CG	LEU	В	763	43.743	36.570	39.641	1.00	19.73
	2683	CD1	LEU	В	763	43.178	37.897	39.172	1.00	20.52
30	2684	CD2	LEU	В	763	43.081	36.166	40.948	1.00	21.82
	2685	N	GLY	В	764	46.379	35.015	37.588	1.00	23.30
	2686	CA	GLY	В	764	47.805	35.230	37.747	1.00	26.93
35	2687	С	GLY	В	764	48.398	35.805	36.481	1.00	28.28
00	2688	0	GLY	В	764	49.167	36.768	36.511	1.00	31.36
	2689	N	TRP	В	765	48.025	35.220	35.351	1.00	23.45
	2690	CA	TRP	В	765	48.539	35.681	34.073	1.00	27.13
40	2691	С	TRP	В	765	48.133	37.117	33.746	1.00	26.40
	2692	0	TRP	В	765	48.970	37.924	33.333	1.00	29.82
	2693	СВ	TRP	В	765	48.091	34.726	32.961	1.00	26.89
45	2694	CG	TRP	В	765	48.662	35.089	31.648	1.00	26.96
	2695	CD1	TRP	В	765	48.053	35.775	30.641	1.00	29.28
	2696	CD2	TRP	В	765	50.019	34.893	31.241	1.00	26.36
	2697	NE1	TRP	В	765	48.951	36.022	29.630	1.00	29.91
50	2698	CE2	TRP	В	765	50.167	35.493	29.975	1.00	31.07
	2699	CE3	TRP	В	765	51.127	34.270	31.832	1.00	29.13
	2700	CZ2	TRP	В	765	51.388	35.489	29.279	1.00	33.25
55	2701	CZ3	TRP	В	765	52.342	34.264	31.140	1.00	32.77
	2702	CH2	TRP	В	765	52.456	34.868	29.881	1.00	26.10
	2703	N	ARG	В	766	46.855	37.451	33.924	1.00	25.83

		THREE	E-DIMENSION			(continued		EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	X	Υ	Z	occ	В	ATOM
5	2704	CA	ARG	В В	766	46.406	38.808	33.639	1.00	24.82
	2705	C	ARG	В	766	47.084	39.831	34.538	1.00	24.76
	2706	0	ARG	В	766	47.389	40.943	34.104	1.00	28.34
	2707	СВ	ARG	В	766	44.883	38.939	33.808	1.00	26.93
10	2707	CG	ARG	В	766	44.047	38.200	32.774	1.00	24.24
	2709	CD	ARG	В	766	42.589	38.568	32.948	1.00	26.44
	2710	NE	ARG	В	766	42.078	38.160	34.256	1.00	26.20
15	2711	CZ	ARG	В	766	41.655	36.932	34.559	1.00	23.20
	2712	NH1	ARG	В	766	41.673	35.975	33.656	1.00	26.38
	2713	NH2	ARG	В	766	41.210	36.665	35.784	1.00	23.30
20	2714	N	SER	В	767	47.322	39.465	35.793	1.00	21.83
	2715	CA	SER	В	767	47.954	40.405	36.721	1.00	24.98
	2716	С	SER	В	767	49.388	40.617	36.273	1.00	26.41
	2717	0	SER	В	767	49.878	41.740	36.209	1.00	26.61
25	2718	СВ	SER	В	767	47.961	39.857	38.147	1.00	24.94
	2719	OG	SER	В	767	46.653	39.669	38.646	1.00	30.28
	2720	N	TYR	В	768	50.050	39.512	35.967	1.00	29.18
30	2721	CA	TYR	В	768	51.436	39.532	35.514	1.00	30.71
	2722	С	TYR	В	768	51.631	40.356	34.241	1.00	34.29
	2723	0	TYR	В	768	52.572	41.143	34.137	1.00	37.28
	2724	СВ	TYR	В	768	51.890	38.082	35.319	1.00	31.45
35	2725	CG	TYR	В	768	53.208	37.878	34.597	1.00	36.24
	2726	CD1	TYR	В	768	54.365	38.560	34.984	1.00	38.98
	2727	CD2	TYR	В	768	53.308	36.950	33.560	1.00	38.42
40	2728	CE1	TYR	В	768	55.590	38.317	34.356	1.00	40.04
	2729	CE2	TYR	В	768	54.525	36.700	32.929	1.00	40.42
	2730	CZ	TYR	В	768	55.661	37.386	33.331	1.00	43.23
45	2731	ОН	TYR	В	768	56.865	37.125	32.706	1.00	51.72
40	2732	N	LYS	В	769	50.707	40.223	33.300	1.00	33.52
	2733	CA	LYS	В	769	50.828	40.907	32.018	1.00	37.03
	2734	С	LYS	В	769	50.290	42.338	31.934	1.00	36.01
50	2735	0	LYS	В	769	50.755	43.115	31.103	1.00	33.96
	2736	СВ	LYS	В	769	50.172	40.031	30.943	1.00	41.58
	2737	CG	LYS	В	769	50.422	40.435	29.497	1.00	50.59
55	2738	CD	LYS	В	769	49.872	39.351	28.577	1.00	52.94
	2739	CE	LYS	В	769	50.140	39.630	27.113	1.00	55.40
	2740	NZ	LYS	В	769	49.610	38.525	26.263	1.00	56.70

		THREE	-DIMENSION	NAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	2741	N	HIS	В	770	49.329	42.700	32.780	1.00	35.24
	2742	CA	HIS	В	770	48.758	44.047	32.723	1.00	34.60
	2743	С	HIS	В	770	49.204	45.022	33.790	1.00	36.43
10	2744	0	HIS	В	770	49.272	46.229	33.541	1.00	34.37
	2745	СВ	HIS	В	770	47.236	43.983	32.747	1.00	35.70
	2746	G	HIS	В	770	46.649	43.272	31.573	1.00	46.81
	2747	ND1	HIS	В	770	46.827	43.706	30.277	1.00	50.52
15	2748	CD2	HIS	В	770	45.892	42.152	31.496	1.00	49.20
	2749	CE1	HIS	В	770	46.205	42.883	29.452	1.00	49.27
	2750	NE2	HIS	В	770	45.630	41.932	30.165	1.00	51.77
20	2751	N	VAL	В	771	49.487	44.520	34.985	1.00	33.76
	2752	CA	VAL	В	771	49.907	45.409	36.054	1.00	32.20
	2753	С	VAL	В	771	51.229	44.988	36.679	1.00	30.98
25	2754	0	VAL	В	771	51.479	45.235	37.852	1.00	34.33
23	2755	СВ	VAL	В	771	48.795	45.520	37.136	1.00	34.95
	2756	CG1	VAL	В	771	47.603	46.297	36.576	1.00	33.50
	2757	CG2	VAL	В	771	48.332	44.140	37.557	1.00	29.74
30	2758	N	SER	В	772	52.075	44.350	35.878	1.00	30.62
	2759	CA	SER	В	772	53.386	43.907	36.338	1.00	31.95
	2760	С	SER	В	772	53.284	43.015	37.561	1.00	33.92
35	2761	0	SER	В	772	54.226	42.930	38.350	1.00	30.00
00	2762	СВ	SER	В	772	54.256	45.117	36.674	1.00	34.85
	2763	OG	SER	В	772	54.357	45.981	35.558	1.00	43.83
	2764	Ν.	GLY	В	773	52.128	42.371	37.724	1.00	28.37
40	2765	CA	GLY	В	773	51.917	41.473	38.844	1.00	29.00
	2766	С	GLY	В	773	51.706	42.154	40.186	1.00	26.33
	2767	0	GLY	В	773	51.644	41.482	41.224	1.00	26.94
45	2768	N	GLN	В	774	51.554	43.474	40.177	1.00	24.89
-	2769	CA	GLN	В	774	51.411	44.204	41.429	1.00	26.11
	2770	С	GLN	В	774	49.994	44.597	41.871	1.00	28.67
	2771	0	GLN	В	774	49.818	45.376	42.811	1.00	27.16
50	2772	СВ	GLN	В	774	52.345	45.425	41.417	1.00	25.33
	2773	CG	GLN	В	774	53.803	45.022	41.149	1.00	29.08
[2774	CD	GLN	В	774	54.233	43.816	41.973	1.00	27.66
55	2775	OE1	GLN	В	774	54.227	43.848	43.216	1.00	30.12
	2776	NE2	GLN	В	774	54.600	42.738	41.289	1.00	30.15
	2777	N	MET	В	775	48.993	44.041	41.196	1.00	24.77

						(continued		X WITH PG		
			-DIMENSION				Z	occ	в	ATOM
_	ATOM	ATOM TYPE	RESIDUE	#	X	Y 47.500	44.238	41.560	1.00	26.82
5	2778	CA	MET	В	775	47.589	42.961	41.091	1.00	24.83
	2779	С	MET	В	775	46.920		40.288	1.00	26,99
	2780	00	MET	В	775	47.494	42.244	40.827	1.00	28.09
10	2781	СВ	MET	В	775	46.952	45.419	41.024	1.00	26.44
	2782	CG	MET	В	775	47.653	46.741	40.194	1.00	37.11
	2783	SD	MET	В	775	46.706	48.019	L	1.00	41.20
	2784	CE	MET	В	775	47.958	49.275	39.887	1.00	26.95
15	2785	N	LEU	В	776 	45.739	42.655	41.611	1.00	23.64
	2786	CA	LEU	В	776	45.017	41.454	41.176		25.94
	2787	С	LEU	В	776	44.072	41.936	40.097	1.00	26.27
20	2788	0	LEU	В	776	43.125	42.672	40.372	1.00	26.64
	2789	СВ	LEU	В	776	44.235	40.826	42.330	1.00	
	2790	CG	LEU	В	776	45.070	40.094	43.390	1.00	27.80
	2791	CD1	LEU	В	776	44.161	39.532	44.462	1.00	26.56
25	2792	CD2	LEU	В	776	45.855	38.956	42.735	1.00	29.50
	2793	N	TYR	В	777	44.357	41.521	38.868	1.00	23.88
	2794	CA	TYR	В	777	43.590	41.934	37.705	1.00	23.44
30	2795	С	TYR	В	777	42.525	40.892	37.399	1.00	25.02
	2796	0	TYR	В	777	42.665	40.086	36.477	1.00	22.33
	2797	СВ	TYR	В	777	44.565	42.113	36.533	1.00	27.34
	2798	CG	TYR	В	777	44.011	42.846	35.342	1.00	29.61
35	2799	CD1	TYR	В	777	43.122	42.230	34.463	1.00	32.26
	2800	CD2	TYR	В	777	44.397	44.155	35.078	1.00	30.45
	2801	CE1	TYR	В	777	42.644	42.899	33.350	1.00	32.66
40	2802	CE2	TYR	В	777	43.926	44.834	33.971	1.00	33.13
	2803	CZ	TYR	В	777	43.054	44.205	33.108	1.00	34.40
	2804	ОН	TYR	В	777	42.624	44.877	31.982	1.00	34.07
	2805	N	PHE	В	778	41.463	40.899	38.204	1.00	22.02
45	2806	CA	PHE	В	778	40.359	39.952	38.004	1.00	24.28
	2807	С	PHE	В	778	39.700	40.235	36.663	1.00	24.40
	2808	0	PHE	В	778	39.355	39.313	35.916	1.00	23.54
50	2809	СВ	PHE	В	778	39.329	40.097	39.126	1.00	20.00
	2810	_	PHE	В	778	39.805	39.594	40.444	1.00	21.83
	2811	CD1	PHE	В	778	39.841	38.227	40.709	1.00	21.24
	2812		PHE	В	778	40.238	40.482	41.426	1.00	25.82
55	2813		PHE	В	778	40.299	37.762	41.930	1.00	24.17
	2814		PHE	В	778	40.702	40.013	42.656	1.00	21.13

		THREE	E-DIMENSION	NAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PO	 ì	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	осс	В	ATOM
5	2815	CZ	PHE	В	778	40.729	38.650	42.901	1.00	21.77
	2816	N	ALA	В	779	39.530	41.522	36.367	1.00	22.16
	2817	CA	ALA	В	779	38.930	41.976	35.113	1.00	24.84
10	2818	C	ALA	В	779	39.289	43.453	34.917	1.00	25.04
	2819	0	ALA	В	779	39.724	44.114	35.850	1.00	25.47
	2820	СВ	ALA	В	779	37.407	41.814	35.155	1.00	20.33
15	2821	N	PRO	В	780	39.075	43.995	33.708	1.00	29.20
15	2822	CA	PRO	В	780	39.412	45.403	33.488	1.00	31.77
	2823	С	PRO	В	780	38.656	46.367	34.407	1.00	33.65
	2824	0	PRO	В	780	39.149	47.463	34.704	1.00	31,21
20	2825	СВ	PRO	В	780	39.066	45.603	32.004	1.00	33.06
	2826	CG	PRO	В	780	39.260	44.203	31.433	1.00	37.79
	2827	CD	PRO	В	780	38.515	43.414	32.480	1.00	28.89
25	2828	N	ASP	В	781	37.465	45.951	34.851	1.00	30.03
20	2829	CA	ASP	В	781	36.603	46.758	35.719	1.00	27.54
	2830	С	ASP	В	781	36.606	46.262	37.171	1.00	30.56
	2831	0	ASP	В	781	35.774	46.680	37.987	1.00	30.31
30	2832	СВ	ASP	В	781	35.163	46.739	35.172	1.00	30.77
	2833	CG	ASP	В	781	34.536	45.344	35.210	1.00	32.93
	2834	OD1	ASP	В	781	35.251	44.350	34.942	1.00	30.51
35	2835	OD2	ASP	В	781	33.317	45.240	35.482	1.00	38.32
	2836	N	LEU	В	782	37.539	45.368	37.485	1.00	28.57
	2837	CA	LEU	В	782	37.667	44.820	38.833	1.00	27.89
	2838	С	LEU	В	782	39.135	44.522	39.090	1.00	27.07
40	2839	0	LEU	В	782	39.611	43.382	38.993	1.00	25.66
	2840	СВ	LEU	В	782	36.808	43.555	38.996	1.00	23.48
	2841	CG	LEU	В	782	36.673	43.026	40.431	1.00	27.04
45	2842	CD1	LEU	В	782	36.229	44.163	41.340	1.00	30.90
	2843	CD2	LEU	В	782	35.666	41.850	40.492	1.00	26.37
	2844	N	ILE	В	783	39.860	45.584	39.399	1.00	26.64
	2845	CA	ILE	В	783	41.279	45.491	39.675	1.00	28.26
50	2846	С	ILE	В	783	41.460	45.862	41.126	1.00	25.73
	2847	0	ILE	В	783	40.948	46.879	41.587	1.00	29.13
ļ	2848	СВ	ILE	В	783	42.070	46.471	38.778	1.00	28.66
55	2849	CG1	ILE	В	783	41.847	46.101	37.314	1.00	28.24
	2850	CG2	ILE	В	783	43.552	46.422	39.108	1.00	30.46
Į	2851	CD1	ILE	В	783	42.448	47.084	36.325	1.00	33.70

TABLE 10 (continued)

		THREE	-DIMENSION	IAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG	i	
	АТОМ	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	2852	N	LEU	В	784	42.175	45.022	41.855	1.00	30.10
	2853	CA	LEU	В	784	42.400	45.278	43.263	1.00	27.98
	2854	С	LEU	В	784	43.870	45.525	43.576	1.00	26.93
10	2855	0	LEU	В	784	44.663	44.587	43.507	1.00	24.54
	2856	СВ	LEU	В	784	41.969	44.081	44.099	1.00	30.52
	2857	CG	LEU	В	784	40.599	43.447	43.895	1.00	35.83
	2858	CD1	LEU	В	784	40.345	42.533	45.087	1.00	36.58
15	2859	CD2	LEU	В	784	39.523	44.498	43.810	1.00	36.04
	2860	N	ASN	В	785	44.237	46.761	43.912	1.00	25.22
	2861	CA	ASN	В	785	45.625	47.017	44.306	1.00	30.59
20	2862	С	ASN	В	785	45.715	46.566	45.763	1.00	29.47
	2863	0	ASN	В	785	44.688	46.271	46.387	1.00	30.15
	2864	СВ	ASN	В	785	46.018	48.501	44.155	1.00	25.33
25	2865	CG	ASN	В	785	45.043	49.451	44.824	1.00	29.56
25	2866	OD1	ASN	В	785	44.530	49.182	45.907	1.00	35.66
	2867	ND2	ASN	В	785	44.815	50.590	44.193	1.00	30.74
	2868	N	GLU	В	786	46.918	46.509	46.321	1.00	30.15
30	2869	CA	GLU	В	786	47.051	46.007	47.684	1.00	29.94
	2870	C	GLU	В	786	46.168	46.734	48.691	1.00	30.50
	2871	0	GLU	В	786	45.591	46.100	49.572	1.00	30.06
35	2872	СВ	GLU	В	786	48.527	46.011	48.132	1.00	34.17
00	2873	CG	GLU	В	786	48.744	45.444	49.540	1.00	33.86
	2874	CD	GLU	В	786	50.188	45.061	49.836	1.00	41.39
	2875	OE1	GLU	В	786	51.113	45.780	49.403	1.00	34.83
40	2876	OE2	GLU	В	786	50.399	44.042	50.530	1.00	40.62
	2877	N	GLN	В	787	46.051	48.051	48.569	1.00	32.42
	2878	CA	GLN	В	787	45.205	48.804	49.499	1.00	35.44
45	2879	С	GLN	В	787	43.748	48.337	49.417	1.00	34.61
	2880	0	GLN	В	787	43.051	48.231	50.430	1.00	31.06
	2881	СВ	GLN	В	787	45.267	50.303	49.195	1.00	33.37
	2882	CG	GLN	В	787	44.361	51.147	50.096	1.00	42.09
50	2883	CD	GLN	В	787	44.724	51.049	51.571	1.00	48.86
	2884	OE1	GLN	В	787	43.991	51.537	52.435	1.00	55. ₂ 4
	2885	NE2	GLN	В	787	45.861	50.430	51.864	1.00	49.14
55	2886	N	ARG	В	788	43.283	48.065	48.206	1.00	31.38
	2887	CA	ARG	В	788	41.909	47.625	48.043	1.00	34.58
	2888	С	ARG	В	788	41.784	46.219	48.645	1.00	32.19

		THREE	E-DIMENSION	IAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG	i	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	2889	0	ARG	В	788	40.755	45.872	49.240	1.00	35.75
	2890	СВ	ARG	В	788	41.524	47.641	46.570	1.00	26.45
	2891	CG	ARG	В	788	40.034	47.506	46.356	1.00	37.78
10	2892	CD	ARG	В	788	39.652	47.601	44.891	1.00	43.22
ı	2893	NE	ARG	В	788	38.202	47.526	44.738	1.00	40.59
-	2894	CZ	ARG	В	788	37.560	47.561	43.577	1.00	46.17
15	2895	NH1	ARG	В	788	38.236	47.671	42.438	1.00	45.32
15	2896	NH2	ARG	В	788	36.233	47.491	43.563	1.00	47.99
	2897	N	MET	В	789	42.841	45.420	48.505	1.00	34.27
	2898	CA	MET	В	789	42.865	44.072	49.068	1.00	30.67
20 .	2899	С	MET	В	789	42.757	44.175	50.583	1.00	37.95
	2900	0	MET	В	789	41.995	43.451	51.220	1.00	33.50
	2901	СВ	MET	В	789	44.184	43.352	48.774	1.00	31.27
25	2902	CG	MET	В	789	44.522	43.165	47.317	1.00	30.70
23	2903	SD	MET	В	789	46.045	42.194	47.093	1.00	32.85
	2904	CE	MET	В	789	46.482	42.698	45.419	1.00	29.49
	2905	N	LYS	В	790	43.545	45.076	51.157	1.00	35.89
30	2906	CA	LYS	В	790	43.574	45.250	52.605	1.00	40.34
	2907	С	LYS	В	790	42.210	45.644	53.187	1.00	41.10
	2908	0	LYS	В	790	41.873	45.255	54.309	1.00	41.11
35	2909	СВ	LYS	В	790	44.642	46.290	52.948	1.00	38.07
	2910	CG	LYS	В	790	45.016	46.402	54.411	1.00	46.09
	2911	CD	LYS	В	790	46.202	47.357	54.572	1.00	50.19
	2912	CE	LYS	В	790	47.419	46.859	53.795	1.00	53.06
40	2913	NZ	LYS	В	790	48.594	47.781	53.878	1.00	61.09
	2914	N	GLU	В	791	41.425	46.397	52.418	1.00	42.50
	2915	CA	GLU	В	791	40.097	46.848	52.848	1.00	45.42
45	2916	С	GLU	В	791	38.974	45.916	52.374	1.00	45.11
	2917	0	GLU	В	791	37.797	46.271	52.456	1.00	46.15
	2918	СВ	GLU	В	791	39.812	48.248	52.281	1.00	45.54
	2919	CG	GLU	В	791	40.788	49.343	52.711	1.00	51.32
50	2920	CD	GLU	В	791	40.477	50.691	52.075	1.00	53.09
	2921	OE1	GLU	В	791	39.310	51.129	52.147	1.00	59.60
	2922	OE2	GLU	В	791	41.400	51.326	51.520	1.00	53.82
55	2923	N	SER	В	792	39.324	44.726	51.897	1.00	43.25
	2924	CA	SER	В	792	38.325	43.803	51.344	1.00	45.29
	2925	С	SER	В	792	37.463	42.934	52.267	1.00	45.71

TABLE 10 (continued)

		THREE	-DIMENSION	IAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	2926	0	SER	В	792	36.291	42.696	51.966	1.00	48.47
	2927	СВ	SER	В	792	39.004	42.886	50.321	1.00	41.92
	2928	OG	SER	В	792	39.956	42.038	50.946	1.00	37.83
10	2929	N	SER	В	793	38.060	42.456	53.359	1.00	47.99
	2930	CA	SER	В	793	37.444	41.566	54.352	1.00	44.28
	2931	С	SER	В	793	38.058	40.181	54.126	1.00	45.52
	2932	0	SER	В	793	37.939	39.278	54.967	1.00	38.10
15	2933	СВ	SER	В	793	35.909	41.484	54.229	1.00	52.05
	2934	OG	SER	В	793	35.503	40.710	53.110	1.00	51.73
	2935	N	PHE	В	794	38.709	40.011	52.975	1.00	36.75
20	2936	CA	PHE	В	794	39.383	38.752	52.674	1.00	34.46
	2937	С	PHE	В	794	40.815	38.977	52.193	1.00	35.15
	2938	0	PHE	В	794	41.285	38.344	51.245	1.00	29.12
0.5	2939	СВ	PHE	В	794	38.597	37.897	51.659	1.00	34.09
25	2940	CG	PHE	В	794	38.136	38.638	50.435	1.00	31.82
	2941	CD1	PHE	В	794	37.005	39.454	50.480	1.00	34.38
	2942	CD2	PHE	В	794	38.807	38.487	49.227	1.00	33. ₇ 0
30	2943	CE1	PHE	В	794	36.546	40.108	49.336	1.00	32.42
	2944	CE2	PHE	В	794	38.358	39.141	48.070	1.00	35.10
	2945	CZ	PHE	В	794	37.227	39.951	48.127	1.00	33.58
35	2946	N	TYR	В	795	41.503	39.884	52.884	1.00	35.15
33	2947	CA	TYR	В	795	42.895	40.227	52.584	1.00	36.03
	2948	С	TYR	В	795	43.759	38.970	52.496	1.00	29.03
	2949	0	TYR	В	795	44.546	38.810	51.558	1.00	30.92
40	2950	СВ	TYR	В	795	43.446	41.148	53.682	1.00	33.87
	2951	CG	TYR	В	795	44.860	41.666	53.462	1.00	42.87
	2952	CD1	TYR	В	795	45.405	41.771	52.179	1.00	45.74
45	2953	CD2	TYR	В	795	45.636	42.091	54.540	1.00	43.44
70	2954	CE1	TYR	В	795	46.689	42.287	51.979	1.00	46.16
	2955	CE2	TYR	В	795	46.914	42.605	54.353	1.00	49.66
	2956	CZ	TYR	В	795	47.436	42.700	53.071	1.00	51.20
50	2957	ОН	TYR	В	795	48.707	43.199	52.884	1.00	51.61
	2958	N	SER	В	796	43.609	38.065	53.458	1.00	29.71
	2959	CA	SER	В	796	44.432	36.855	53.463	1.00	33.41
55	2960	С	SER	В	796	44.262	36.003	52.210	1.00	34.99
	2961	0	SER	В	796	45.228	35.433	51.697	1.00	30.81
	2962	СВ	SER	В	796	44.128	36.004	54.696	1.00	32.48

		THREE	E-DIMENSION	NAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG	i	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	осс	В	ATOM
5	2963	OG	SER	В	796	42.764	35.641	54.718	1.00	46.57
	2964	N	LEU	В	797	43.031	35.919	51.720	1.00	31.82
	2965	CA	LEU	В	797	42.768	35.135	50.521	1.00	34.40
10	2966	С	LEU	В	797	43.399	35.854	49.342	1.00	27.87
	2967	0	LEU	В	797	43.963	35.224	48.451	1.00	31.27
	2968	СВ	LEU	В	797	41.261	35.000	50.291	1.00	31.93
15	2969	CG	LEU	В	797	40.858	33.875	49.334	1.00	37.66
15	2970	CD1	LEU	В	797	41.251	32.542	49.949	1.00	36.98
	2971	CD2	LEU	В	797	39.362	33.900	49.106	1.00	38.90
	2972	N	CYS	В	798	43.292	37.179	49.337	1.00	31.24
20	2973	CA	CYS	В	798	43.885	37.980	48.271	1.00	30.70
	2974	С	CYS	В	798	45.377	37.723	48.202	1.00	29.69
	2975	0	CYS	В	798	45.912	37.508	47.120	1.00	28.98
25	2976	СВ	CYS	В	798	43.620	39.468	48.492	1.00	30.81
25	2977	SG	CYS	В	798	41.896	39.959	48.184	1.00	34.74
	2978	N	LEU	В	799	46.057	37.738	49.344	1.00	30.05
	2979	CA	LEU	В	799	47.499	37.467	49.350	1.00	31.95
30	2980	С	LEU	В	799	47.804	36.066	48.826	1.00	34.28
	2981	0	LEU	В	799	48.771	35.862	48.090	1.00	31.99
	2982	СВ	LEU	В	799	48.078	37.608	50.756	1.00	37.86
35	2983	CG	LEU	В	799	47.990	39.005	51.366	1.00	40.98
55	2984	CD1	LEU	В	799	48.504	38.957	52.806	1.00	39.48
	2985	CD2	LEU	В	799	48.799	39.996	50.528	1.00	38.01
	2986	N	THR	В	800	46.991	35.089	49.214	1.00	32.31
40	2987	CA	THR	В	800	47.200	33.722	48.749	1.00	31.22
	2988	С	THR	В	800	47.153	33.664	47.230	1.00	28.73
	2989	0	THR	В	800	47.970	32.990	46.587	1.00	31.25
45	2990	СВ	THR	В	800	46.125	32.774	49.338	1.00	32.96
	2991	OG1	THR	В	800	46.392	32.603	50.729	1.00	37.48
	2992	CG2	THR	В	800	46.121	31.414	48.638	1.00	31.79
	2993	N	MET	В	801	46.196	34.372	46.648	1.00	27.39
50	2994	CA	MET	В	801	46.078	34.376	45.206	1.00	25.92
	2995	С	MET	В	801	47.190	35.190	44.553	1.00	28.37
	2996	0	MET	В	801	47.715	34.804	43.516	1.00	26.82
55	2997	СВ	MET	В	801	44.725	34.938	44.794	1.00	30.43
	2998	CG	MET	В	801	43.567	33.998	45.053	1.00	25.00
[2999	SD	MET	В	801	42.026	34.755	44.543	1.00	39.28

TABLE 10 (continued)

		THREE	-DIMENSION			TES OF P		EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	x	Υ	Z	occ	В	ATOM
5	3000	CE	MET	В	801	41.910	36.095	45.721	1.00	31.74
	3001	N	TRP	В	802	47.555	36.301	45.180	1.00	27.61
	3002	CA	TRP	В	802	48.574	37.204	44.656	1.00	29.01
10	3003	С	TRP	В	802	49.942	36.527	44.503	1.00	31.69
10	3004	0	TRP	В	802	50.812	37.016	43.773	1.00	31.46
	3005	СВ	TRP	В	802	48.640	38.429	45.574	1.00	28.86
	3006	CG	TRP	В	802	49.311	39.628	45.007	1.00	29.63
15	3007	CD1	TRP	В	802	49.528	39.914	43.686	1.00	30.48
	3008	CD2	TRP	В	802	49.716	40.781	45.738	1.00	27.02
	3009	NE1	TRP	В	802	50.040	41.184	43.554	1.00	26.74
20	3010	CE2	TRP	В	802	50.163	41.738	44.800	1.00	30.15
	3011	CE3	TRP	В	802	49.740	41.102	47.100	1.00	27.81
	3012	CZ2	TRP	В	802	50.630	42.990	45.182	1.00	29.45
	3013	CZ3	TRP	В	802	50.207	42.356	47.479	1.00	31.99
25	3014	CH2	TRP	В	802	50.643	43.282	46.521	1.00	30.34
	3015	N	GLN	В	803	50.118	35.386	45.164	1.00	31.67
	3016	CA	GLN	В	803	51.371	34.641	45.081	1.00	33.58
30	3017	С	GLN	В	803	51.638	34.097	43.676	1.00	37.24
	3018	0	GLN	В	803	52.787	33.878	43.293	1.00	33.37
	3019	СВ	GLN	В	803	51.365	33.465	46.061	1.00	35.29
	3020	CG	GLN	В	803	51.335	33.839	47.539	1.00	45.49
35	3021	CD	GLN	В	803	51.288	32.611	48.447	1.00	46.24
	3022	OE1	GLN	В	803	52.138	31.728	48.355	1.00	55.28
	3023	NE2	GLN	В	803	50.293	32.557	49.327	1.00	53.88
40	3024	N	ILE	В	804	50.587	33.867	42.900	1.00	27.44
	3025	CA	ILE	В	804	50.789	33.320	41.567	1.00	28.71
	3026	С	ILE	В	804	51.477	34.279	40.612	1.00	22.83
	3027	0	ILE	В	804	52.439	33.906	39.951	1.00	28.57
45	3028	СВ	ILE	В	804	49.454	32.854	40.947	1.00	24.30
	3029	CG1	ILE	В	804	48.854	31.748	41.819	1.00	30.72
	3030	CG2	ILE	В	804	49.692	32.334	39.531	1.00	32.39
50	3031	CD1	ILE	В	804	47.479	31.293	41.391	1.00	28.78
	3032	N	PRO	В	805	50.969	35.514	40.493	1.00	26.89
	3033	CA	PRO	В	805	51.627	36.449	39.577	1.00	29.13
EE	3034	С	PRO	В	805	53.055	36.778	40.018	1.00	33.32
55	3035	0	PRO	В	805	53.924	37.035	39.193	1.00	32.54
	3036	СВ	PRO	В	805	50.684	37.654	39.588	1.00	31.35

	<u></u>	THREE	-DIMENSION			TES OF P	R IN COMPL	EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	3037	CG	PRO	В	805	50.099	37.602	40.969	1.00	34.40
	3038	CD	PRO	В	805	49.762	36.125	41.070	1.00	27.20
	3039	N	GLN	В	806	53.302	36.745	41.319	1.00	32.34
10	3040	CA	GLN	В	806	54.637	37.050	41.809	1.00	36.70
	3041	С	GLN	В	806	55.569	35.922	41.367	1.00	39.30
	3042	0	GLN	В	806	56.774	36.124	41.175	1.00	37.37
	3043	СВ	GLN	В	806	54.623	37.180	43.338	1.00	37.55
15	3044	CG	GLN	В	806	53.654	38.230	43.899	1.00	40.88
	3045	CD	GLN	В	806	53.948	39.660	43.444	1.00	48.76
	3046	OE1	GLN	В	806	53.279	40.605	43.870	1.00	53.24
20	3047	NE2	GLN	В	806	54.943	39.824	42.583	1.00	42.24
	3048	N	GLU	В	807	54.999	34.735	41.178	1.00	32.14
	3049	CA	GLU	В	807	55.791	33.593	40.764	1.00	35.89
25	3050	С	GLU	В	807	56.033	33.651	39.260	1.00	32.99
23	3051	0	GLU	В	807	57.071	33.198	38.781	1.00	34.50
	3052	СВ	GLU	В	807	55.086	32.293	41.150	1.00	40.93
	3053	CG	GLU	В	807	55.989	31.087	41.147	1.00	44.91
30	3054	CD	GLU	В	807	57.191	31.280	42.051	1.00	55.41
	3055	OE1	GLU	В	807	57.002	31.627	43.239	1.00	58.81
	3056	OE2	GLU	В	807	58.327	31.082	41.575	1.00	62.55
35	3057	N	PHE	В	808	55.076	34.203	38.517	1.00	32.23
	3058	CA	PHE	В	808	55.230	34.345	37.068	1.00	29.01
	3059	С	PHE	В	808	56.333	35.382	36.832	1.00	31.50
	3060	0	PHE	В	808	57.128	35.246	35.914	1.00	32.70
40	3061	СВ	PHE	В	808	53.933	34.841	36.420	1.00	29.87
	3062	CG	PHE	В	808	52.870	33.786	36.279	1.00	29.41
	3063	CD1	PHE	В	808	53.146	32.454	36.546	1.00	34.35
45	3064	CD2	PHE	В	808	51.594	34.135	35.857	1.00	30.60
	3065	CE1	PHE	В	808	52.156	31.472	36.395	1.00	40.92
	3066	CE2	PHE	В	808	50.599	33.174	35.701	1.00	27.80
	3067	CZ	PHE	В	808	50.877	31.842	35.970	1.00	29.99
50	3068	N	VAL	В	809	56.366	36.420	37.665	1.00	36.56
	3069	CA	VAL	В	809	57.391	37.459	37.543	1.00	36.76
	3070	С	VAL	В	809	58.743	36.800	37.770	1.00	40.16
55	3071	0	VAL	В	809	59.673	36.949	36.965	1.00	40.88
	3072	СВ	VAL	В	809	57.190	38.585	38.592	1.00	38.00
	3073	CG1	VAL	В	809	58.409	39.520	38.615	1.00	39.88

ATOM ATOM TYPE RESIDUE # X Y Z OCC B ATOM			THREE	-DIMENSION	IAL CO	ORDINA	TES OF P	R IN COMPLI	EX WITH PG		
3074 CG2 VAL B 50.53 50.54 50.55		ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
10 3078 CA	5	3074	CG2	VAL	В	809	55.944	39.390	38.251	1.00	34.92
3077 C		3075	N	LYS	В	810	58.831	36.044	38.857	1.00	35.81
10 3078		3076	CA	LYS	В	810	60.059	35.365	39.223	1.00	39.66
3078	10	3077	С	LYS	В	810	60.589	34.395	38.176	1.00	40.69
3080 CG		3078	0	LYS	В	810	61.783	34.396	37.887	1.00	39.53
15 3081 CD		3079	СВ	LYS	В	810	59.875	34.633	40.549	1.00	44.11
3081 CU		3080	CG	LYS	В	810	61.103	33.854	40.995	1.00	50.84
3082 CE	15	3081	CD	LYS	В	810	60.917	33.255	42.385	1.00	58.43
3084 N		3082	CE	LYS	В	810	60.773	34.341	43.448	1.00	56.52
3084 N		3083	NZ	LYS	В	810	60.552	33.768	44.812	1.00	61.40
3068 C	20	3084	N	LEU	В	811 1	59.707	33.570	37.612	1.00	37.80
3087 O LEU B 811 60.578 32.469 34.258 1.00 37.38		3085	CA	LEU	В	811	60.107	32.596	36.601	1.00	38.18
25		3086	С	LEU	В	811	60.127	33.145	35.183	1.00	37.73
3088 CB LEU B 8111 59.168 31.322 30.601 1.00 43.91 3090 CD1 LEU B 811 59.188 30.533 37.889 1.00 43.91 3090 CD1 LEU B 811 59.181 29.464 37.790 1.00 47.64 3092 N GLN B 812 59.627 34.362 35.012 1.00 36.65 3093 CA GLN B 812 59.627 34.362 35.012 1.00 36.65 3094 C GLN B 812 59.564 34.979 33.693 1.00 38.46 3095 O GLN B 812 59.291 33.786 31.607 1.00 35.35 3096 CB GLN B 812 59.291 33.786 31.607 1.00 33.66 3096 CB GLN B 812 60.983 35.281 33.206 1.00 46.92 3097 CG GLN B 812 61.763 36.139 34.196 1.00 52.42 40 3098 CD GLN B 812 63.241 36.277 33.852 1.00 62.75 3099 OE1 GLN B 812 63.661 35.662 32.746 1.00 62.90 3100 NE2 GLN B 812 63.661 35.662 32.746 1.00 62.19 3101 N VAL B 813 57.706 33.496 33.166 1.00 30.09 3102 CA VAL B 813 56.598 32.577 32.334 1.00 30.99 3103 C VAL B 813 56.598 32.126 33.063 1.00 26.61 3104 O VAL B 813 56.598 32.126 33.063 1.00 32.05 3105 CB VAL B 813 55.645 32.126 33.063 1.00 32.05 3107 CG2 VAL B 813 56.024 31.405 34.332 1.00 32.05 3108 N SER B 814 56.745 32.469 29.924 1.00 28.74		3087	0	LEU	В	811	60.578	32.469	34.258	1.00	37.38
3090 CD1 LEU B 811 58.114 29.464 37.790 1.00 47.64 3091 CD2 LEU B 811 60.562 29.901 38.041 1.00 47.76 3092 N GLN B 812 59.627 34.362 35.012 1.00 36.65 3093 CA GLN B 812 59.564 34.979 33.693 1.00 38.46 3094 C GLN B 812 58.839 34.031 32.724 1.00 35.35 3095 O GLN B 812 59.291 33.786 31.607 1.00 33.66 3096 CB GLN B 812 60.983 35.281 33.206 1.00 46.92 3097 CG GLN B 812 61.763 36.139 34.196 1.00 52.42 40 3098 CD GLN B 812 63.241 36.277 33.852 1.00 62.75 3099 OE1 GLN B 812 63.995 36.928 34.579 1.00 62.90 3100 NE2 GLN B 812 63.661 35.662 32.746 1.00 62.19 3101 N VAL B 813 57.706 33.496 33.166 1.00 33.05 3102 CA VAL B 813 56.592 32.577 32.334 1.00 30.09 3103 C VAL B 813 56.559 33.219 31.005 1.00 26.61 3104 O VAL B 813 56.559 33.219 31.005 1.00 26.61 3105 CB VAL B 813 55.645 32.126 33.063 1.00 32.65 3106 CG1 VAL B 813 55.645 32.126 33.063 1.00 32.65 3107 CG2 VAL B 813 56.745 32.469 29.924 1.00 28.74 3108 N SER B 814 56.745 32.469 29.924 1.00 28.74	25	3088	СВ	LEU	В	811 1	59.168	31.392	36.631	1.00	41.71
3091 CD2 LEU B 811 60.562 29.901 38.041 1.00 47.76 3092 N GLN B 812 59.627 34.362 35.012 1.00 36.65 3093 CA GLN B 812 59.564 34.979 33.693 1.00 38.46 3094 C GLN B 812 59.564 34.979 33.693 1.00 35.35 3095 O GLN B 812 59.291 33.786 31.607 1.00 35.65 3096 CB GLN B 812 60.983 35.281 33.206 1.00 46.92 3097 CG GLN B 812 61.763 36.139 34.196 1.00 52.42 3098 CD GLN B 812 63.241 36.277 33.852 1.00 62.75 3099 OE1 GLN B 812 63.995 36.928 34.579 1.00 62.79 3100 NE2 GLN B 812 63.661 35.662 32.746 1.00 62.19 3101 N VAL B 813 57.706 33.496 33.166 1.00 33.05 3102 CA VAL B 813 56.928 32.577 32.334 1.00 30.09 3103 C VAL B 813 56.559 33.219 31.005 1.00 26.61 3104 O VAL B 813 56.559 33.219 31.005 1.00 26.61 3105 CB VAL B 813 55.645 32.126 33.063 1.00 32.65 3106 CG1 VAL B 813 55.645 32.126 33.063 1.00 32.65 3107 CG2 VAL B 813 56.024 31.405 34.332 1.00 31.32 55 3108 N SER B 814 56.745 32.469 29.924 1.00 26.63		3089	CG	LEU	В	811	59.188	30.533	37.889	1.00	43.91
3092 N GLN B 812 59.627 34.362 35.012 1.00 36.65 3093 CA GLN B 812 59.564 34.979 33.693 1.00 38.46 3094 C GLN B 812 59.594 34.031 32.724 1.00 35.35 3095 O GLN B 812 59.291 33.786 31.607 1.00 33.66 3096 CB GLN B 812 60.983 35.281 33.206 1.00 46.92 3097 CG GLN B 812 61.763 36.139 34.196 1.00 52.42 3098 CD GLN B 812 63.241 36.277 33.852 1.00 62.75 3099 OE1 GLN B 812 63.995 36.928 34.579 1.00 62.79 3100 NE2 GLN B 812 63.661 35.662 32.746 1.00 62.19 3101 N VAL B 813 57.706 33.496 33.166 1.00 33.05 3102 CA VAL B 813 56.598 32.577 32.334 1.00 30.09 3103 C VAL B 813 56.559 33.219 31.005 1.00 26.61 3104 O VAL B 813 55.645 32.126 33.063 1.00 32.65 3106 CG1 VAL B 813 55.645 32.126 33.063 1.00 32.65 3107 CG2 VAL B 813 56.024 31.405 34.332 1.00 32.05 3108 N SER B 814 56.745 32.869 29.924 1.00 28.74 3109 CA SER B 814 56.745 32.862 28.599 1.00 26.63		3090	CD1	LEU	В	811	58.114	29.464	37.790	1.00	47.64
3093 CA GLN B 812 59.564 34.979 33.693 1.00 38.46 3094 C GLN B 812 59.564 34.979 33.693 1.00 35.35 3095 O GLN B 812 59.291 33.786 31.607 1.00 35.35 3096 CB GLN B 812 60.983 35.281 33.206 1.00 46.92 3097 CG GLN B 812 61.763 36.139 34.196 1.00 52.42 3098 CD GLN B 812 63.241 36.277 33.852 1.00 62.75 3099 OE1 GLN B 812 63.995 36.928 34.579 1.00 62.90 3100 NE2 GLN B 812 63.661 35.662 32.746 1.00 62.19 3101 N VAL B 813 57.706 33.496 33.166 1.00 33.05 3102 CA VAL B 813 56.928 32.577 32.334 1.00 30.09 3103 C VAL B 813 56.559 33.219 31.005 1.00 26.61 3104 O VAL B 813 55.645 32.126 33.063 1.00 32.65 3105 CB VAL B 813 55.645 32.126 33.063 1.00 32.65 3106 CG1 VAL B 813 56.024 31.405 34.332 1.00 31.32 55 3108 N SER B 814 56.745 32.469 29.924 1.00 28.74 3109 CA SER B 814 56.745 32.982 28.599 1.00 26.63	30	3091	CD2	LEU	В	811	60.562	29.901	38.041	1.00	47.76
3094 C GLN B 812 58.839 34.031 32.724 1.00 35.35 3095 O GLN B 812 59.291 33.786 31.607 1.00 33.66 3096 CB GLN B 812 60.983 35.281 33.206 1.00 46.92 3097 CG GLN B 812 61.763 36.139 34.196 1.00 52.42 3098 CD GLN B 812 63.241 36.277 33.852 1.00 62.75 3099 OE1 GLN B 812 63.995 36.928 34.579 1.00 62.90 3100 NE2 GLN B 812 63.661 35.662 32.746 1.00 62.19 3101 N VAL B 813 57.706 33.496 33.166 1.00 33.05 3102 CA VAL B 813 56.928 32.577 32.334 1.00 30.09 3103 C VAL B 813 56.559 33.219 31.005 1.00 26.61 3104 O VAL B 813 56.559 33.219 31.005 1.00 26.61 3105 CB VAL B 813 55.645 32.126 33.063 1.00 32.65 3106 CG1 VAL B 813 54.816 31.198 32.158 1.00 32.05 3107 CG2 VAL B 813 56.024 31.405 34.332 1.00 31.32 3108 N SER B 814 56.745 32.469 29.924 1.00 28.74 3109 CA SER B 814 56.415 32.982 28.599 1.00 26.63		3092	N	GLN	В	812	59.627	34.362	35.012	1.00	36.65
3095 O GLN B 812 59.291 33.786 31.607 1.00 33.66 3096 CB GLN B 812 60.983 35.281 33.206 1.00 46.92 3097 CG GLN B 812 61.763 36.139 34.196 1.00 52.42 3098 CD GLN B 812 63.241 36.277 33.852 1.00 62.75 3099 OE1 GLN B 812 63.995 36.928 34.579 1.00 62.90 3100 NE2 GLN B 812 63.661 35.662 32.746 1.00 62.19 3101 N VAL B 813 57.706 33.496 33.166 1.00 33.05 3102 CA VAL B 813 56.928 32.577 32.334 1.00 30.09 3103 C VAL B 813 56.559 33.219 31.005 1.00 26.61 3104 O VAL B 813 56.136 34.374 30.948 1.00 27.45 3105 CB VAL B 813 55.645 32.126 33.063 1.00 32.65 3106 CG1 VAL B 813 55.645 32.126 33.063 1.00 32.65 3107 CG2 VAL B 813 56.024 31.405 34.332 1.00 31.32 3108 N SER B 814 56.745 32.469 29.924 1.00 28.74 3109 CA SER B 814 56.415 32.982 28.599 1.00 26.63		3093	CA	GLN	В	812	59.564	34.979	33.693	1.00	38.46
3095 O GLN B 812 59.291 33.786 31.807 1.00 33.00 3096 CB GLN B 812 60.983 35.281 33.206 1.00 46.92 3097 CG GLN B 812 61.763 36.139 34.196 1.00 52.42 3098 CD GLN B 812 63.241 36.277 33.852 1.00 62.75 3099 OE1 GLN B 812 63.995 36.928 34.579 1.00 62.90 3100 NE2 GLN B 812 63.661 35.662 32.746 1.00 62.19 3101 N VAL B 813 57.706 33.496 33.166 1.00 33.05 3102 CA VAL B 813 56.928 32.577 32.334 1.00 30.09 3103 C VAL B 813 56.559 33.219 31.005 1.00 26.61 3104 O VAL B 813 55.645 32.126 33.063 1.00 27.45 3105 CB VAL B 813 55.645 32.126 33.063 1.00 32.65 3106 CG1 VAL B 813 56.024 31.198 32.158 1.00 32.05 3107 CG2 VAL B 813 56.024 31.405 34.332 1.00 31.32 3108 N SER B 814 56.745 32.982 28.599 1.00 26.63 3109 CA SER B 814 56.415 32.982 28.599 1.00 26.63		3094	С	GLN	В	812	58.839	34.031	32.724	1.00	35.35
3097 CG GLN B 812 61.763 36.139 34.196 1.00 52.42 3098 CD GLN B 812 63.241 36.277 33.852 1.00 62.75 3099 OE1 GLN B 812 63.995 36.928 34.579 1.00 62.90 3100 NE2 GLN B 812 63.661 35.662 32.746 1.00 62.19 3101 N VAL B 813 57.706 33.496 33.166 1.00 33.05 3102 CA VAL B 813 56.928 32.577 32.334 1.00 30.09 3103 C VAL B 813 56.559 33.219 31.005 1.00 26.61 3104 O VAL B 813 55.645 32.126 33.063 1.00 32.65 3105 CB VAL B 813 55.645 32.126 33.063 1.00 32.65 3106 CG1 VAL B 813 56.024 31.405 34.332 1.00 31.32 3108 N SER B 814 56.745 32.469 29.924 1.00 28.74 3109 CA SER B 814 56.415 32.982 28.599 1.00 26.63	35	3095	0	GLN	В	812	59.291	33.786	31.607	1.00	33.66
3098 CD GLN B 812 63.241 36.277 33.852 1.00 62.75		3096	СВ	GLN	В	812	60.983	35.281	33.206	1.00	46.92
3099 OE1 GLN B 812 63.995 36.928 34.579 1.00 62.90 3100 NE2 GLN B 812 63.661 35.662 32.746 1.00 62.19 3101 N VAL B 813 57.706 33.496 33.166 1.00 33.05 3102 CA VAL B 813 56.928 32.577 32.334 1.00 30.09 3103 C VAL B 813 56.559 33.219 31.005 1.00 26.61 3104 O VAL B 813 56.136 34.374 30.948 1.00 27.45 3105 CB VAL B 813 55.645 32.126 33.063 1.00 32.65 3106 CG1 VAL B 813 54.816 31.198 32.158 1.00 32.05 3107 CG2 VAL B 813 56.024 31.405 34.332 1.00 31.32 3108 N SER B 814 56.745 32.469 29.924 1.00 28.74 3109 CA SER B 814 56.415 32.982 28.599 1.00 26.63		3097	CG	GLN	В	812	61.763	36.139	34.196	1.00	52.42
3100 NE2 GLN B 812 63.661 35.662 32.746 1.00 62.19 3101 N VAL B 813 57.706 33.496 33.166 1.00 33.05 3102 CA VAL B 813 56.928 32.577 32.334 1.00 30.09 3103 C VAL B 813 56.559 33.219 31.005 1.00 26.61 3104 O VAL B 813 56.136 34.374 30.948 1.00 27.45 3105 CB VAL B 813 55.645 32.126 33.063 1.00 32.65 3106 CG1 VAL B 813 54.816 31.198 32.158 1.00 32.05 3107 CG2 VAL B 813 56.024 31.405 34.332 1.00 31.32 3108 N SER B 814 56.745 32.469 29.924 1.00 28.74 3109 CA SER B 814 56.415 32.982 28.599 1.00 26.63	40	3098	CD	GLN	В	812	63.241	36.277	33.852	1.00	62.75
3101 N VAL B 813 57.706 33.496 33.166 1.00 33.05 3102 CA VAL B 813 56.928 32.577 32.334 1.00 30.09 3103 C VAL B 813 56.559 33.219 31.005 1.00 26.61 3104 O VAL B 813 56.136 34.374 30.948 1.00 27.45 3105 CB VAL B 813 55.645 32.126 33.063 1.00 32.65 3106 CG1 VAL B 813 54.816 31.198 32.158 1.00 32.05 3107 CG2 VAL B 813 56.024 31.405 34.332 1.00 31.32 3108 N SER B 814 56.745 32.469 29.924 1.00 28.74 3109 CA SER B 814 56.415 32.982 28.599 1.00 26.63		3099	OE1	GLN	В	812	63.995	36.928	34.579	1.00	62.90
3102 CA VAL B 813 56.928 32.577 32.334 1.00 30.09 3103 C VAL B 813 56.559 33.219 31.005 1.00 26.61 3104 O VAL B 813 56.136 34.374 30.948 1.00 27.45 3105 CB VAL B 813 55.645 32.126 33.063 1.00 32.65 3106 CG1 VAL B 813 54.816 31.198 32.158 1.00 32.05 3107 CG2 VAL B 813 56.024 31.405 34.332 1.00 31.32 3108 N SER B 814 56.745 32.469 29.924 1.00 28.74 3109 CA SER B 814 56.415 32.982 28.599 1.00 26.63		3100	NE2	GLN	В	812	63.661	35.662	32.746	1.00	62.19
3102 CA VAL B 813 56.928 32.577 32.334 1.00 30.09 3103 C VAL B 813 56.559 33.219 31.005 1.00 26.61 3104 O VAL B 813 56.136 34.374 30.948 1.00 27.45 3105 CB VAL B 813 55.645 32.126 33.063 1.00 32.65 3106 CG1 VAL B 813 54.816 31.198 32.158 1.00 32.05 3107 CG2 VAL B 813 56.024 31.405 34.332 1.00 31.32 3108 N SER B 814 56.745 32.469 29.924 1.00 28.74 3109 CA SER B 814 56.415 32.982 28.599 1.00 26.63		3101	N	VAL	В	813	57.706	33.496	33.166	1.00	33.05
3104 O VAL B 813 56.136 34.374 30.948 1.00 27.45 3105 CB VAL B 813 55.645 32.126 33.063 1.00 32.65 3106 CG1 VAL B 813 54.816 31.198 32.158 1.00 32.05 3107 CG2 VAL B 813 56.024 31.405 34.332 1.00 31.32 3108 N SER B 814 56.745 32.469 29.924 1.00 28.74 3109 CA SER B 814 56.415 32.982 28.599 1.00 26.63	45	3102	CA	VAL	В	813	56.928	32.577	32.334	1.00	30.09
50 3105 CB VAL B 813 55.645 32.126 33.063 1.00 32.65 3106 CG1 VAL B 813 54.816 31.198 32.158 1.00 32.05 3107 CG2 VAL B 813 56.024 31.405 34.332 1.00 31.32 3108 N SER B 814 56.745 32.469 29.924 1.00 28.74 31.09 CA SER B 814 56.415 32.982 28.599 1.00 26.63		3103	С	VAL	В	813	56.559	33.219	31.005	1.00	26.61
3106 CG1 VAL B 813 54.816 31.198 32.158 1.00 32.05 3107 CG2 VAL B 813 56.024 31.405 34.332 1.00 31.32 3108 N SER B 814 56.745 32.469 29.924 1.00 28.74 3109 CA SER B 814 56.415 32.982 28.599 1.00 26.63		3104	0	VAL	В	813	56.136	34.374	30.948	1.00	27.45
3107 CG2 VAL B 813 56.024 31.405 34.332 1.00 31.32 3108 N SER B 814 56.745 32.469 29.924 1.00 28.74 3109 CA SER B 814 56.415 32.982 28.599 1.00 26.63	50	3105	СВ	VAL	В	813	55.645	32.126	33.063	1.00	32.65
3107 CG2 VAL B 516 SSET STATE		3106	CG1	VAL	В	813	54.816	31.198	32.158	1.00	32.05
3109 CA SER B 814 56.415 32.982 28.599 1.00 26.63		3107	CG2	VAL	В	813	56.024	31.405	34.332	1.00	31.32
3109 CA SER B 814 56.415 32.982 28.599 1.00 26.63	E F	3108	N	SER	В	814	56.745	32.469	29.924	1.00	28.74
3110 C SER B 814 54.972 32.609 28.307 1.00 25.32	22	3109	CA	SER	В	814	56.415	32.982	28.599	1.00	26.63
		3110	С	SER	В	814	54.972	32.609	28.307	1.00	25.32

		THREE	-DIMENSION	NAL CC	ORDINA	ATES OF P	R IN COMPL	EX WITH PG	i	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	3111	0	SER	В	814	54.413	31.720	28.945	1.00	26.17
	3112	СВ	SER	В	814	57.291	32.338	27.537	1.00	20.76
	3113	OG	SER	В	814	57.087	30.930	27.530	1.00	32.55
10	3114	N	GLN	В	815	54.387	33.290	27.332	1.00	29.06
	3115	CA	GLN	В	815	53.014	33.031	26.931	1.00	30.84
	3116	C	GLN	В	815	52.858	31.597	26.438	1.00	30.78
	3117	0	GLN	В	815	51.800	30.983	26.614	1.00	29.76
15	3118	СВ	GLN	В	815	52.613	34.010	25.825	1.00	33.76
	3119	CG	GLN	В	815	51.168	33.883	25.367	1.00	48.56
	3120	CD	GLN	В	815	50.791	34.935	24.337	1.00	53.59
20	3121	OE1	GLN	В	815	50.880	36.139	24.595	1.00	61.73
	3122	NE2	GLN	В	815	50.370	34.487	23.167	1.00	53.05
	3123	N	GLU	В	816	53.914	31.062	25.821	1.00	28.64
25	3124	CA	GLU	В	816	53.886	29.709	25.294	1.00	26.48
25	3125	С	GLU	В	816	53.873	28.657	26.400	1.00	28.37
	3126	0	GLU	В	816	53.181	27.647	26.297	1.00	26.00
	3127	СВ	GLU	В	816	55.090	29.464	24.370	1.00	28.52
30	3128	CG	GLU	В	816	55.187	30.379	23.135	1.00	30.85
	3129	CD	GLU	В	816	55.387	31.853	23.474	1.00	40.74
	3130	OE1	GLU	В	816	56.191	32.155	24.380	1.00	35.62
35	3131	OE2	GLU	В	816	54.756	32.718	22.821	1.00	48.10
	3132	N	GLU	В	817	54.646	28.875	27.458	1.00	28.18
	3133	CA	GLU	В	817	54.679	27.908	28.561	1.00	22.67
	3134	С	GLU	В	817	53.334	27.952	29.308	1.00	26.65
40	3135	0	GLU	В	817	52.798	26.912	29.718	1.00	27.82
Ì	3136	СВ	GLU	В	817	55.827	28.253	29.508	1.00	31.49
	3137	CG	GLU	В	817	57.197	28.222	28.815	1.00	30.28
45	3138	CD	GLU	В	817	58.301	28.832	29.664	1.00	41.20
	3139	OE1	GLU	В	817	58.072	29.918	30.242	1.00	33.70
	3140	OE2	GLU	В	817	59.403	28.243	29.730	1.00	35.22
	3141	N	PHE	В	818	52.812	29.162	29.470	1.00	22.36
50	3142	CA	PHE	В	818	51.535	29.410	30.140	1.00	25.25
	3143	С	PHE	В	818	50.392	28.641	29.484	1.00	24.77
	3144	0	PHE	В	818	49.610	27.981	30.167	1.00	24.06
55	3145	СВ	PHE	В	818	51.196	30.903	30.087	1.00	22.70
[3146	CG	PHE	В	818	49.781	31.227	30.526	1.00	24.41
	3147	CD1	PHE	В	818	49.388	31.042	31.845	1.00	24.27

STATISTE DIMENSIONAL COORDINATES OF PRIN COMPLEX WITH PG			THREE	-DIMENSION			TES OF P		EX WITH PG		
STATE STAT		ATOM									ATOM
3149	5					818	48.846	31.703	29.612	1.00	29.17
3150 CE2					В	818	48.077	31.321	32.256	1.00	27.63
151				PHE	В	818	47.530	31.985	30.006	1.00	31.24
3152 N	10		CZ	PHE	В	818	47.147	31.794	31.329	1.00	27.17
3154	10			LEU	В	819	50.299	28.728	28.158	1.00	26.67
3154 C C C C C C C C C		3153	CA	LEU	В	819	49.220	28.053	27.434	1.00	21.35
3156		3154	С	LEU	В	819	49.221	26.540	27.594	1.00	30.98
3156 CB LEU B 819 48.936 29.911 1 25.692 1.00 22.84 3158 CD1 LEU B 819 49.334 30.306 24.285 1.00 30.19 3159 CD2 LEU B 819 47.459 30.156 25.931 1.00 31.22 3160 N CYS B 820 50.399 25.931 27.572 1.00 22.63 3161 CA CYS B 820 50.491 24.489 27.755 1.00 28.50 3162 C CYS B 820 50.171 24.127 29.200 1.00 26.00 3163 O CYS B 820 51.896 23.993 27.406 1.00 24.25 3164 CB CYS B 820 51.896 23.993 27.406 1.00 27.91 3165 SG CYS B 820 52.317 24.170 25.661 1.00 32.47 3166 N MET B 821 50.707 24.913 30.135 1.00 22.36 3167 CA MET B 821 50.483 24.654 31.556 1.00 21.33 3168 C MET B 821 48.503 24.021 32.715 1.00 26.99 3170 CB MET B 821 51.278 25.626 32.433 1.00 26.99 3171 CG MET B 821 52.782 25.421 32.382 1.00 28.60 3172 SD MET B 821 53.621 26.820 33.184 1.00 34.96 3173 CE MET B 822 46.923 25.884 31.562 1.00 24.27 3176 C LYS B 822 46.334 25.721 31.267 1.00 24.24 3177 O LYS B 822 46.923 25.884 31.562 1.00 24.77 3178 CB LYS B 822 46.923 25.884 31.562 1.00 24.77 3179 CG LYS B 822 46.923 25.884 31.562 1.00 24.77 3178 CB LYS B 822 46.923 25.884 31.562 1.00 24.77 3179 CG LYS B 822 46.336 27.164 30.901 1.00 22.46 3179 CG LYS B 822 46.936 27.164 30.901 1.00 22.46 3179 CG LYS B 822 44.991 27.512 31.372 1.00 25.45 3180 CD LYS B 822 44.675 28.996 31.201 1.00 34.91 3181 CE LYS B 822 44.654 28.750 28.981 1.00 34.91 3182 NZ LYS B 822 44.655 28.996 31.201 1.00 34.91 3183 N VAL B 823 46.502 24.043 30.007 1.00 25.55	15	3155	0	LEU	В	819	48.158	25.926	27.736	1.00	23.62
3158 CD1 LEU B 819 49,334 30,306 24,285 1.00 30,19		3156	СВ	LEU	В	819	49.259	28.437	25.953	1.00	29.60
3159 CD2 LEU B 819 47.459 30.156 25.931 1.00 31.22		3157	CG	LEU	В	819	48.936	29.911 1	25.692	1.00	22.84
3160 N CYS B 820 50.399 25.931 27.572 1.00 22.63 3161 CA CYS B 820 50.491 24.489 27.755 1.00 28.50 3162 C CYS B 820 50.491 24.489 27.755 1.00 28.50 3163 O CYS B 820 49.458 23.144 29.465 1.00 24.25 3164 CB CYS B 820 51.896 23.993 27.406 1.00 27.91 3165 SG CYS B 820 52.317 24.170 25.661 1.00 27.91 3166 N MET B 821 50.707 24.913 30.135 1.00 22.36 3167 CA MET B 821 50.483 24.654 31.556 1.00 21.33 3168 C MET B 821 49.015 24.778 31.898 1.00 26.26 3169 O MET B 821 48.503 24.021 32.715 1.00 25.87 3170 CB MET B 821 51.278 25.626 32.433 1.00 26.99 3171 CG MET B 821 52.782 25.421 32.382 1.00 26.99 3172 SD MET B 821 53.621 26.820 33.184 1.00 28.60 3173 CE MET B 821 53.294 26.479 34.906 1.00 34.63 3174 N LYS B 822 48.334 25.721 31.267 1.00 22.01 3175 CA LYS B 822 46.93 25.884 31.562 1.00 24.77 3176 C LYS B 822 46.93 25.884 31.562 1.00 24.77 3176 C LYS B 822 46.93 25.884 31.562 1.00 24.77 3176 C LYS B 822 46.93 25.884 31.562 1.00 24.77 3176 C LYS B 822 46.93 25.884 31.562 1.00 24.77 3176 C LYS B 822 46.93 25.884 31.562 1.00 24.77 3176 C LYS B 822 46.93 25.884 31.562 1.00 24.77 3176 C LYS B 822 46.93 27.164 30.901 1.00 22.46 3179 CG LYS B 822 46.99 37.51 31.804 1.00 20.06 3178 CB LYS B 822 44.991 27.512 31.372 1.00 25.45 3180 CD LYS B 822 44.991 27.512 31.372 1.00 25.45 3181 CE LYS B 822 44.675 28.996 31.201 1.00 34.91 3181 CE LYS B 822 43.654 28.750 28.981 1.00 37.51	20	3158	CD1	LEU	В	819	49.334	30.306	24.285	1.00	30.19
3161		3159	CD2	LEU	В	819	47.459	30.156	25.931	1.00	31.22
3162		3160	N	CYS	В	820	50.399	25.931	27.572	1.00	22.63
3162 C CYS B 820 30.171 24.121 25.200 1.00 24.25 3163 O CYS B 820 49.458 23.144 29.465 1.00 24.25 3164 CB CYS B 820 51.896 23.993 27.406 1.00 27.91 3165 SG CYS B 820 52.317 24.170 25.661 1.00 32.47 3166 N MET B 821 50.707 24.913 30.135 1.00 22.36 3167 CA MET B 821 50.483 24.654 31.556 1.00 21.33 3168 C MET B 821 49.015 24.778 31.898 1.00 26.26 3169 O MET B 821 48.503 24.021 32.715 1.00 25.87 3170 CB MET B 821 51.278 25.626 32.433 1.00 26.99 3171 CG MET B 821 53.621 26.820 33.184 1.00 34.96 3172 SD MET B 821 53.621 26.820 33.184 1.00 34.96 3173 CE MET B 821 53.294 26.479 34.906 1.00 34.63 3174 N LYS B 822 48.334 25.721 31.267 1.00 22.01 3175 CA LYS B 822 46.923 25.884 31.562 1.00 24.77 3176 C LYS B 822 46.135 24.647 31.126 1.00 24.24 3177 O LYS B 822 46.396 27.164 30.901 1.00 24.24 3178 CB LYS B 822 44.991 27.512 31.372 1.00 25.45 3180 CD LYS B 822 44.675 28.996 31.201 1.00 34.91 3181 CE LYS B 822 44.675 28.996 31.201 1.00 34.91 3182 NZ LYS B 822 44.675 28.996 31.201 1.00 34.91 3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51 3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51 3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51 3185 LYS B 822 43.654 28.750 28.981 1.00 37.51 3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51 3185 SA SA SA SA SA SA SA S		3161	CA	CYS	В	820	50.491	24.489	27.755	1.00	28.50
3164	25	3162	С	CYS	В	820	50.171	24.127	29.200	1.00	26.00
3165 SG CYS B 820 52.317 24.170 25.661 1.00 32.47 3166 N MET B 821 50.707 24.913 30.135 1.00 22.36 3167 CA MET B 821 50.483 24.654 31.556 1.00 21.33 3168 C MET B 821 49.015 24.778 31.898 1.00 26.26 3169 O MET B 821 48.503 24.021 32.715 1.00 25.87 3170 CB MET B 821 51.278 25.626 32.433 1.00 26.99 3171 CG MET B 821 52.782 25.421 32.382 1.00 28.60 3172 SD MET B 821 53.621 26.820 33.184 1.00 34.96 3173 CE MET B 821 53.294 26.479 34.906 1.00 34.63 3174 N LYS B 822 48.334 25.721 31.267 1.00 22.01 3175 CA LYS B 822 46.923 25.884 31.562 1.00 24.77 3176 C LYS B 822 46.135 24.647 31.126 1.00 24.24 3177 O LYS B 822 46.396 27.164 30.901 1.00 20.06 3178 CB LYS B 822 44.991 27.512 31.372 1.00 25.45 3180 CD LYS B 822 44.675 28.996 31.201 1.00 34.91 3181 CE LYS B 822 44.675 28.996 31.201 1.00 34.91 3182 NZ LYS B 822 44.655 28.996 31.201 1.00 38.39 3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51		3163	0	CYS	В	820	49.458	23.144	29.465	1.00	24.25
3166 N MET B 821 50.707 24.913 30.135 1.00 22.36 3167 CA MET B 821 50.483 24.654 31.556 1.00 21.33 3168 C MET B 821 49.015 24.778 31.898 1.00 26.26 3169 O MET B 821 48.503 24.021 32.715 1.00 25.87 3170 CB MET B 821 51.278 25.626 32.433 1.00 26.99 3171 CG MET B 821 52.782 25.421 32.382 1.00 28.60 3172 SD MET B 821 53.621 26.820 33.184 1.00 34.96 3173 CE MET B 821 53.294 26.479 34.906 1.00 34.63 3174 N LYS B 822 48.334 25.721 31.267 1.00 22.01 3175 CA LYS B 822 46.923 25.884 31.562 1.00 24.77 3176 C LYS B 822 46.135 24.647 31.126 1.00 24.24 3177 O LYS B 822 46.135 24.647 31.126 1.00 24.24 3178 CB LYS B 822 46.396 27.164 30.901 1.00 20.06 3179 CG LYS B 822 44.991 27.512 31.372 1.00 25.45 3180 CD LYS B 822 44.675 28.996 31.201 1.00 34.91 3181 CE LYS B 822 44.675 28.996 31.201 1.00 34.91 3181 CE LYS B 822 44.675 28.996 31.201 1.00 34.91 3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51		3164	СВ	CYS	В	820	51.896	23.993	27.406	1.00	27.91
3166 N MET B 821 50.483 24.654 31.556 1.00 21.33 3168 C MET B 821 49.015 24.778 31.898 1.00 26.26 3169 O MET B 821 48.503 24.021 32.715 1.00 25.87 3170 CB MET B 821 51.278 25.626 32.433 1.00 26.99 3171 CG MET B 821 52.782 25.421 32.382 1.00 28.60 3172 SD MET B 821 53.621 26.820 33.184 1.00 34.96 3173 CE MET B 821 53.621 26.820 33.184 1.00 34.63 3174 N LYS B 822 46.923 25.884 31.562 1.00 22.01 3175 CA LYS B 822 46.923 25.884 31.562 1.00 24.77 3176 C LYS B 822 46.135 24.647 31.126 1.00 24.27 3177 O LYS B 822 46.135 24.647 31.126 1.00 24.24 3177 O LYS B 822 46.396 27.164 30.901 1.00 20.06 3179 CG LYS B 822 44.991 27.512 31.372 1.00 25.45 3180 CD LYS B 822 44.675 28.996 31.201 1.00 34.91 3181 CE LYS B 822 43.654 28.750 28.981 1.00 37.51 3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51 31.83 N VAL B 823 46.532 24.043 30.007 1.00 22.51	30	3165	SG	CYS	В	820	52.317	24.170	25.661	1.00	32.47
3167 CA MET B 821 49.015 24.778 31.898 1.00 26.26 3169 O MET B 821 48.503 24.021 32.715 1.00 25.87 3170 CB MET B 821 51.278 25.626 32.433 1.00 26.99 3171 CG MET B 821 52.782 25.421 32.382 1.00 28.60 3172 SD MET B 821 53.621 26.820 33.184 1.00 34.96 3173 CE MET B 821 53.294 26.479 34.906 1.00 34.63 3174 N LYS B 822 48.334 25.721 31.267 1.00 22.01 3175 CA LYS B 822 46.923 25.884 31.562 1.00 24.77 3176 C LYS B 822 46.135 24.647 31.126 1.00 24.27 3177 O LYS B 822 46.135 24.647 31.126 1.00 24.24 3177 O LYS B 822 46.396 27.164 30.901 1.00 20.06 3178 CB LYS B 822 44.991 27.512 31.372 1.00 25.45 3180 CD LYS B 822 44.675 28.996 31.201 1.00 34.91 3181 CE LYS B 822 44.675 28.996 31.201 1.00 34.91 3181 CE LYS B 822 43.654 28.750 28.981 1.00 37.51 3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51		3166	N	MET	В	821	50.707	24.913	30.135	1.00	22.36
3169 O MET B 821 48.503 24.021 32.715 1.00 25.87 3170 CB MET B 821 51.278 25.626 32.433 1.00 26.99 3171 CG MET B 821 52.782 25.421 32.382 1.00 28.60 3172 SD MET B 821 53.621 26.820 33.184 1.00 34.96 3173 CE MET B 821 53.294 26.479 34.906 1.00 34.63 3174 N LYS B 822 48.334 25.721 31.267 1.00 22.01 3175 CA LYS B 822 46.923 25.884 31.562 1.00 24.77 3176 C LYS B 822 46.135 24.647 31.126 1.00 24.24 3177 O LYS B 822 45.188 24.221 31.804 1.00 20.06 3178 CB LYS B 822 46.396 27.164 30.901 1.00 22.46 3179 CG LYS B 822 44.991 27.512 31.372 1.00 25.45 3180 CD LYS B 822 44.675 28.996 31.201 1.00 34.91 3181 CE LYS B 822 44.654 28.750 28.981 1.00 37.51 3182 NZ LYS B 822 43.654 28.750 28.981 1.00 37.51		3167	CA	MET	В	821	50.483	24.654	31.556	1.00	21.33
3169 O MET B 821 48.503 24.021 32.713 1.00 25.07 3170 CB MET B 821 51.278 25.626 32.433 1.00 26.99 3171 CG MET B 821 52.782 25.421 32.382 1.00 28.60 3172 SD MET B 821 53.621 26.820 33.184 1.00 34.96 3173 CE MET B 821 53.294 26.479 34.906 1.00 34.63 3174 N LYS B 822 48.334 25.721 31.267 1.00 22.01 3175 CA LYS B 822 46.923 25.884 31.562 1.00 24.77 3176 C LYS B 822 46.135 24.647 31.126 1.00 24.24 3177 O LYS B 822 45.188 24.221 31.804 1.00 20.06 3178 CB LYS B 822 46.396 27.164 30.901 1.00 22.46 3179 CG LYS B 822 44.991 27.512 31.372 1.00 25.45 3180 CD LYS B 822 44.675 28.996 31.201 1.00 34.91 3181 CE LYS B 822 44.675 28.996 31.201 1.00 34.91 3182 NZ LYS B 822 43.654 28.750 28.981 1.00 37.51 3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51		3168	С	MET	В	821	49.015	24.778	31.898	1.00	26.26
3171 CG MET B 821 52.782 25.421 32.382 1.00 28.60 3172 SD MET B 821 53.621 26.820 33.184 1.00 34.96 3173 CE MET B 821 53.294 26.479 34.906 1.00 34.63 3174 N LYS B 822 48.334 25.721 31.267 1.00 22.01 3175 CA LYS B 822 46.923 25.884 31.562 1.00 24.77 3176 C LYS B 822 46.135 24.647 31.126 1.00 24.24 3177 O LYS B 822 45.188 24.221 31.804 1.00 20.06 3178 CB LYS B 822 46.396 27.164 30.901 1.00 22.46 3179 CG LYS B 822 44.991 27.512 31.372 1.00 25.45 3180 CD LYS B 822 44.675 28.996 31.201 1.00 34.91 3181 CE LYS B 822 44.712 29.433 29.753 1.00 38.39 3182 NZ LYS B 822 43.654 28.750 28.981 1.00 37.51 3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51	35	3169	0	MET	В	821	48.503	24.021	32.715	1.00	25.87
3171 CG		3170	СВ	MET	В	821	51.278	25.626	32.433	1.00	26.99
3173 CE MET B 821 53.294 26.479 34.906 1.00 34.63 3174 N LYS B 822 48.334 25.721 31.267 1.00 22.01 3175 CA LYS B 822 46.923 25.884 31.562 1.00 24.77 3176 C LYS B 822 46.135 24.647 31.126 1.00 24.24 3177 O LYS B 822 45.188 24.221 31.804 1.00 20.06 3178 CB LYS B 822 46.396 27.164 30.901 1.00 22.46 3179 CG LYS B 822 44.991 27.512 31.372 1.00 25.45 3180 CD LYS B 822 44.675 28.996 31.201 1.00 34.91 3181 CE LYS B 822 44.712 29.433 29.753 1.00 38.39 3182 NZ LYS B 822 43.654 28.750 28.981 1.00 37.51 3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51		3171	CG	MET	В	821	52.782	25.421	32.382	1.00	28.60
3173	40	3172	SD	MET	В	821	53.621	26.820	33.184	1.00	34.96
3175 CA LYS B 822 46.923 25.884 31.562 1.00 24.77 3176 C LYS B 822 46.135 24.647 31.126 1.00 24.24 3177 O LYS B 822 45.188 24.221 31.804 1.00 20.06 3178 CB LYS B 822 46.396 27.164 30.901 1.00 22.46 3179 CG LYS B 822 44.991 27.512 31.372 1.00 25.45 3180 CD LYS B 822 44.675 28.996 31.201 1.00 34.91 3181 CE LYS B 822 44.712 29.433 29.753 1.00 38.39 3182 NZ LYS B 822 43.654 28.750 28.981 1.00 37.51 3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51		3173	CE	MET	В	821	53.294	26.479	34.906	1.00	
3176		3174	N	LYS	В	822	48.334	25.721	31.267	1.00	22.01
3176 C LYS B 822 46.135 24.647 31.126 1.00 24.24 3177 O LYS B 822 45.188 24.221 31.804 1.00 20.06 3178 CB LYS B 822 46.396 27.164 30.901 1.00 22.46 3179 CG LYS B 822 44.991 27.512 31.372 1.00 25.45 3180 CD LYS B 822 44.675 28.996 31.201 1.00 34.91 3181 CE LYS B 822 44.712 29.433 29.753 1.00 38.39 3182 NZ LYS B 822 43.654 28.750 28.981 1.00 37.51 3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51		3175	CA	LYS	В	822	46.923	25.884	31.562	1.00	24.77
3177	45	3176	С	LYS	В	822	46.135	24.647	31.126	1.00	24.24
50 3179 CG LYS B 822 44.991 27.512 31.372 1.00 25.45 3180 CD LYS B 822 44.675 28.996 31.201 1.00 34.91 3181 CE LYS B 822 44.712 29.433 29.753 1.00 38.39 3182 NZ LYS B 822 43.654 28.750 28.981 1.00 37.51 3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51		3177	0	LYS	В	822	45.188	24.221	31.804	1.00	20.06
3180 CD LYS B 822 44.675 28.996 31.201 1.00 34.91 3181 CE LYS B 822 44.712 29.433 29.753 1.00 38.39 3182 NZ LYS B 822 43.654 28.750 28.981 1.00 37.51 3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51		3178	СВ	LYS	В	822	46.396	27.164	30.901	1.00	22.46
3181 CE LYS B 822 44.712 29.433 29.753 1.00 38.39 3182 NZ LYS B 822 43.654 28.750 28.981 1.00 37.51 3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51	50	3179	CG	LYS	В	822	44.991	27.512	31.372	1.00	25.45
3182 NZ LYS B 822 43.654 28.750 28.981 1.00 37.51 3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51		3180	CD	LYS	В	822	44.675	28.996	31.201	1.00	34.91
3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51		3181	CE	LYS	В	822	44.712	29.433	29.753	1.00	38.39
3183 N VAL B 823 46.532 24.043 30.007 1.00 22.51	55	3182	NZ	LYS	В	822	43.654	28.750	28.981	1.00	37.51
3184 CA VAL B 823 45.852 22.831 29.546 1.00 19.35	99	3183	N	VAL	В	823	46.532	24.043	30.007	1.00	22.51
		3184	CA	VAL	В	823	45.852	22.831	29.546	1.00	19.35

ATOM ATOM TYPE RESIDUE 8 X Y Z OCC B ATOM			THREE	-DIMENSION	IAL CC	ORDINA	ATES OF P	R IN COMPL	EX WITH PG	· · · · · ·	
3186		ATOM	ATOM TYPE	RESIDUE	#	х	Y	Z	occ	В	ATOM
3187 CB	5	3185	С	VAL	В	823	46.140	21.700	30.511 1	1.00	20.40
10 3188		3186	0	VAL	В	823	45.266	20.879	30.822	1.00	18.38
3189		3187	СВ	VAL	В	823	46.316	22.387	28.147	1.00	17.40
3190	10	3188	CG1	VAL	В	823	45.663	21.037	27.785	1.00	23.17
3191		3189	CG2	VAL	В	823	45.910	23.426	27.129	1.00	25.04
Sample C		3190	N	LEU	В	824	47.372	21.657	31.012	1.00	20.55
3192 C LEU B 824 46.874 20.734 33.230 1.00 19.28 3193 O LEU B 824 46.874 20.734 33.230 1.00 19.28 3194 CB LEU B 824 49.210 20.610 32.245 1.00 22.64 3195 CG LEU B 824 50.056 20.144 31.047 1.00 22.09 3196 CD1 LEU B 824 50.056 20.144 31.047 1.00 22.09 3196 CD1 LEU B 824 49.668 18.707 30.684 1.00 32.05 3197 CD2 LEU B 825 46.511 21.956 33.619 1.00 21.54 3199 CA LEU B 825 45.684 22.134 34.814 1.00 21.16 3200 C LEU B 825 43.757 20.858 35.483 1.00 20.01 32.02 CB LEU B 825 45.547 23.614 31.00 20.01 32.05 3202 CB LEU B 825 45.547 23.614 35.164 1.00 19.34 3203 CG LEU B 825 46.814 24.203 35.786 1.00 22.57 3204 CD1 LEU B 825 46.814 24.203 35.786 1.00 22.91 3205 CD2 LEU B 825 46.814 24.203 35.786 1.00 22.91 3205 CD2 LEU B 825 46.814 24.203 35.786 1.00 22.91 3205 CD2 LEU B 825 46.814 24.203 35.786 1.00 22.91 3206 N LEU B 826 42.465 21.067 33.072 1.00 21.69 3207 CA LEU B 826 42.465 21.067 33.072 1.00 21.95 3208 C LEU B 826 42.465 21.067 33.072 1.00 21.95 3208 C LEU B 826 42.465 21.067 33.072 1.00 21.95 3208 C LEU B 826 42.544 19.533 33.192 1.00 24.10 32.91 3205 CB LEU B 826 42.465 21.067 33.072 1.00 21.95 3208 C LEU B 826 42.544 19.533 33.192 1.00 24.10 32.91 3205 CB LEU B 826 42.544 19.533 33.192 1.00 24.10 32.91 CB LEU B 826 42.544 19.533 33.192 1.00 24.10 32.91 32.91 CB LEU B 826 42.545 21.067 33.072 1.00 21.95 32.91 CB LEU B 826 42.072 21.462 31.637 1.00 23.49 32.11 CG LEU B 826 40.759 21.198 39.532 1.00 23.49 32.11 CG LEU B 826 40.759 21.198 39.532 1.00 21.74 32.11 CG LEU B 826 40.759 21.198 39.532 1.00 21.74 32.11 CG LEU B 826 40.759 21.198 39.532 1.00 21.74 32.11 CG LEU B 826 40.759 21.198 39.532 1.00 21.74 32.11 CG LEU B 826 40.759 21.198 39.532 1.00 21.74 32.11 CG LEU B 826 40.759 21.198 39.532 1.00 21.74 32.11 CG LEU B 826 40.759 21.198 39.532 1.00 21.74 32.11 CG LEU B 826 40.759 21.198 39.532 1.00 21.74 32.11 CG LEU B 826 40.759 21.198 39.532 1.00 21.74 32.11 CG LEU B 827 43.727 13.8973 32.953 1.00 22.34 32.11 CG LEU B 827 43.727 13.8973 32.953 1.00 22.53 32.15 CG LEU B 827 44.620 17.081 31.715 1.00 25.05 32.15 32.1		3191	CA	LEU	В	824	47.705	20.611	31.951	1.00	21.76
3194 CB	15	3192	С	LEU	В	824	46.874	20.734	33.230	1.00	19.28
3195 CG		3193	0	LEU	В	824	46.540	19.721	33.837	1.00	22.64
3196 CD1 LEU B 824 51.548 20.248 31.388 1.00 32.05 3197 CD2 LEU B 824 49.668 18.707 30.684 1.00 23.33 3198 N LEU B 825 46.511 21.956 33.619 1.00 21.54 3199 CA LEU B 825 45.684 22.134 34.814 1.00 21.16 3200 C LEU B 825 44.904 21.500 34.594 1.00 22.24 3201 O LEU B 825 43.757 20.858 35.483 1.00 20.01 3202 CB LEU B 825 45.547 23.614 35.164 1.00 19.34 3203 CG LEU B 825 46.629 25.698 36.063 1.00 22.91 3204 CD1 LEU B 825 47.101 23.450 37.096 1.00 22.94 3206 N LEU B 826 43.750 21.674 33.403 1.00 22.94 3207 CA LEU B 826 42.465 21.067 33.072 1.00 21.95 3208 C LEU B 826 42.465 21.067 33.072 1.00 21.95 3209 O LEU B 826 42.544 19.533 33.192 1.00 24.10 3209 C LEU B 826 42.072 21.462 31.637 1.00 23.49 3211 CG LEU B 826 40.832 20.808 31.017 1.00 23.40 3213 CD2 LEU B 826 40.759 21.198 29.532 1.00 21.37 3214 N LEU B 826 40.759 21.198 29.532 1.00 21.37 3216 C LEU B 827 43.727 18.973 32.953 1.00 21.74 3215 CA LEU B 827 43.727 18.973 32.953 1.00 21.74 3216 C LEU B 827 43.727 18.973 32.953 1.00 21.74 3217 O LEU B 827 44.620 17.081 31.715 1.00 27.08 3218 CB LEU B 827 44.620 17.081 31.715 1.00 27.08 3219 CG LEU B 827 44.620 17.081 31.715 1.00 23.45		3194	СВ	LEU	В	824	49.210	20.610	32.245	1.00	22.31
3197 CD2 LEU B 824 49.668 18.707 30.684 1.00 23.33 3198 N LEU B 825 46.511 21.956 33.619 1.00 21.54 3199 CA LEU B 825 45.684 22.134 34.814 1.00 21.16 3200 C LEU B 825 44.304 21.500 34.594 1.00 22.24 3201 O LEU B 825 43.757 20.858 35.483 1.00 20.01 3202 CB LEU B 825 45.547 23.614 35.164 1.00 19.34 3203 CG LEU B 825 46.814 24.203 35.786 1.00 22.57 3204 CD1 LEU B 825 46.629 25.698 36.063 1.00 22.91 3205 CD2 LEU B 825 47.101 23.450 37.096 1.00 22.94 3206 N LEU B 826 43.750 21.674 33.403 1.00 21.69 3207 CA LEU B 826 42.465 21.067 33.072 1.00 21.95 3208 C LEU B 826 42.544 19.533 33.192 1.00 24.10 3209 O LEU B 826 42.544 19.533 33.192 1.00 24.10 3209 C LEU B 826 42.072 21.462 31.637 1.00 23.49 3211 CG LEU B 826 40.832 20.808 31.017 1.00 23.40 3213 CD2 LEU B 826 40.759 21.198 29.532 1.00 21.37 3214 N LEU B 826 40.759 21.198 29.532 1.00 21.37 3215 CA LEU B 827 43.727 18.973 32.953 1.00 21.74 3215 CA LEU B 827 43.727 18.973 32.953 1.00 21.74 3216 C LEU B 827 43.727 18.973 32.953 1.00 21.74 3217 O LEU B 827 44.620 17.081 31.715 1.00 26.92 3218 CB LEU B 827 44.620 17.081 31.715 1.00 27.08 3218 CB LEU B 827 44.620 17.081 31.715 1.00 23.15 3219 CG LEU B 827 44.620 17.081 31.715 1.00 25.05 3220 CD1 LEU B 827 44.620 17.081 31.715 1.00 25.05	20	3195	CG	LEU	В	824	50.058	20.144	31.047	1.00	22.09
3198 N LEU B 825 46.511 21.956 33.619 1.00 21.54 3199 CA LEU B 825 45.684 22.134 34.814 1.00 21.16 3200 C LEU B 825 44.304 21.500 34.594 1.00 22.24 3201 O LEU B 825 43.757 20.858 35.483 1.00 20.01 3202 CB LEU B 825 45.547 23.614 35.164 1.00 19.34 3203 CG LEU B 825 46.814 24.203 35.786 1.00 22.57 3204 CD1 LEU B 825 46.629 25.698 36.063 1.00 22.91 3205 CD2 LEU B 825 47.101 23.450 37.096 1.00 22.94 3206 N LEU B 826 43.750 21.674 33.403 1.00 21.69 3207 CA LEU B 826 42.465 21.067 33.072 1.00 21.95 3208 C LEU B 826 42.544 19.533 33.192 1.00 24.10 3209 O LEU B 826 42.544 19.533 33.192 1.00 24.10 3209 C LEU B 826 42.544 19.533 33.499 1.00 23.49 3211 CG LEU B 826 42.072 21.462 31.637 1.00 20.89 3211 CG LEU B 826 40.832 20.808 31.017 1.00 23.40 3212 CD1 LEU B 826 40.832 20.808 31.017 1.00 23.40 3213 CD2 LEU B 826 40.759 21.198 29.532 1.00 21.37 3214 N LEU B 826 40.759 21.198 29.532 1.00 21.37 3214 N LEU B 827 43.727 18.973 32.953 1.00 21.74 3215 CA LEU B 827 43.902 17.531 32.999 1.00 26.22 3216 C LEU B 827 43.902 17.531 32.999 1.00 26.22 3218 CB LEU B 827 44.732 17.081 31.715 1.00 27.08 3218 CB LEU B 827 44.600 17.081 31.715 1.00 23.15 3219 CG LEU B 827 44.600 17.081 31.715 1.00 23.85		3196	CD1	LEU	В	824	51.548	20.248	31.388	1.00	32.05
3199 CA LEU B 825 45.684 22.134 34.814 1.00 21.16		3197	CD2	LEU	В	824	49.668	18.707	30.684	1.00	23.33
3199 CA LEU B 825 45.684 22.134 34.814 1.00 21.16 3200 C LEU B 825 44.304 21.500 34.594 1.00 22.24 3201 O LEU B 825 43.757 20.858 35.483 1.00 20.01 3202 CB LEU B 825 45.547 23.614 35.164 1.00 19.34 3203 CG LEU B 825 46.814 24.203 35.786 1.00 22.57 3204 CD1 LEU B 825 46.629 25.698 36.063 1.00 22.91 3205 CD2 LEU B 825 47.101 23.450 37.096 1.00 22.94 3206 N LEU B 826 43.750 21.674 33.403 1.00 21.69 3207 CA LEU B 826 42.465 21.067 33.072 1.00 21.95 3208 C LEU B 826 42.544 19.533 33.192 1.00 24.10 3209 O LEU B 826 42.544 19.533 33.192 1.00 24.10 3209 C LEU B 826 42.072 21.462 31.637 1.00 23.49 3211 CG LEU B 826 40.832 20.808 31.017 1.00 23.40 3211 CG LEU B 826 40.832 20.808 31.017 1.00 23.40 3212 CD1 LEU B 826 40.832 20.808 31.017 1.00 23.40 3213 CD2 LEU B 826 40.832 20.808 31.017 1.00 21.60 3214 N LEU B 826 40.759 21.198 29.532 1.00 21.74 3215 CA LEU B 827 43.727 18.973 32.953 1.00 21.74 3216 C LEU B 827 43.727 18.973 32.999 1.00 26.22 3217 O LEU B 827 44.732 17.087 34.208 1.00 26.34 3217 O LEU B 827 44.732 17.087 34.208 1.00 27.08 3218 CB LEU B 827 44.620 17.081 31.715 1.00 23.15 3219 CG LEU B 827 44.092 17.626 30.388 1.00 25.05	25	3198	N	LEU	В	825	46.511	21.956	33.619	1.00	21.54
3201 O LEU B 825 43.757 20.858 35.483 1.00 20.01 3202 CB LEU B 825 45.547 23.614 35.164 1.00 19.34 3203 CG LEU B 825 46.814 24.203 35.786 1.00 22.57 3204 CD1 LEU B 825 46.629 25.698 36.063 1.00 22.91 3205 CD2 LEU B 826 47.101 23.450 37.096 1.00 22.94 3206 N LEU B 826 43.750 21.674 33.403 1.00 21.69 3207 CA LEU B 826 42.465 21.067 33.072 1.00 21.95 3208 C LEU B 826 42.544 19.533 33.192 1.00 24.10 3209 O LEU B 826 41.552 18.865 33.499 1.00 23.49 3210 CB LEU B 826 42.072 21.462 31.637 1.00 20.89 3211 CG LEU B 826 40.832 20.808 31.017 1.00 20.89 3211 CG LEU B 826 40.759 21.198 29.532 1.00 21.37 3214 N LEU B 826 40.759 21.198 29.532 1.00 21.74 3215 CA LEU B 827 43.727 18.973 32.953 1.00 21.74 3216 C LEU B 827 43.727 18.973 32.953 1.00 21.74 3217 O LEU B 827 43.727 18.973 32.999 1.00 26.22 3218 CB LEU B 827 44.732 17.087 34.208 1.00 26.34 3219 CG LEU B 827 44.620 17.081 31.715 1.00 23.15 3219 CG LEU B 827 44.620 17.081 31.715 1.00 23.15 3220 CD1 LEU B 827 44.092 17.626 30.388 1.00 25.05	25	3199	CA	LEU	В	825	45.684	22.134	34.814	1.00	21.16
3202 CB LEU B 825 45.547 23.614 35.164 1.00 19.34 3203 CG LEU B 825 46.814 24.203 35.786 1.00 22.57 3204 CD1 LEU B 825 46.629 25.698 36.063 1.00 22.91 3205 CD2 LEU B 825 47.101 23.450 37.096 1.00 22.94 3206 N LEU B 826 43.750 21.674 33.403 1.00 21.69 3207 CA LEU B 826 42.465 21.067 33.072 1.00 21.95 3208 C LEU B 826 42.544 19.533 33.192 1.00 24.10 3209 O LEU B 826 42.544 19.533 33.192 1.00 24.10 3209 CB LEU B 826 42.072 21.462 31.637 1.00 20.89 3211 CG LEU B 826 42.072 21.462 31.637 1.00 20.89 3211 CG LEU B 826 40.832 20.808 31.017 1.00 23.40 3212 CD1 LEU B 826 40.832 20.808 31.017 1.00 23.40 3213 CD2 LEU B 826 40.759 21.198 29.532 1.00 21.37 3214 N LEU B 826 40.759 21.198 29.532 1.00 21.37 3214 N LEU B 827 43.727 18.973 32.953 1.00 21.74 3215 CA LEU B 827 43.902 17.531 32.999 1.00 26.22 3216 C LEU B 827 44.732 17.087 34.208 1.00 26.34 3217 O LEU B 827 44.732 17.087 34.208 1.00 26.34 3218 CB LEU B 827 44.620 17.081 31.715 1.00 27.08 3218 CB LEU B 827 44.092 17.626 30.388 1.00 25.05 3220 CD1 LEU B 827 44.092 17.626 30.388 1.00 25.05 3220 CD1 LEU B 827 44.092 17.626 30.388 1.00 25.05		3200	С	LEU	В	825	44.304	21.500	34.594	1.00	22.24
3203		3201	0	LEU	В	825	43.757	20.858	35.483	1.00	20.01
3204 CD1 LEU B 825 46.629 25.698 36.063 1.00 22.91 3205 CD2 LEU B 825 47.101 23.450 37.096 1.00 22.94 3206 N LEU B 826 43.750 21.674 33.403 1.00 21.69 3207 CA LEU B 826 42.465 21.067 33.072 1.00 21.95 3208 C LEU B 826 42.544 19.533 33.192 1.00 24.10 3209 O LEU B 826 42.544 19.533 33.192 1.00 24.10 3210 CB LEU B 826 42.072 21.462 31.637 1.00 20.89 3211 CG LEU B 826 40.832 20.808 31.017 1.00 23.49 3212 CD1 LEU B 826 40.832 20.808 31.017 1.00 23.40 3213 CD2 LEU B 826 40.759 21.198 29.532 1.00 21.37 3214 N LEU B 827 43.727 18.973 32.953 1.00 21.74 3215 CA LEU B 827 43.902 17.531 32.999 1.00 26.22 50 3216 C LEU B 827 44.732 17.087 34.208 1.00 26.34 3217 O LEU B 827 44.732 17.087 34.208 1.00 26.34 3218 CB LEU B 827 44.620 17.081 31.715 1.00 23.15 3219 CG LEU B 827 44.092 17.626 30.388 1.00 25.05 3219 CG LEU B 827 44.092 17.626 30.388 1.00 25.05	· 30	3202	СВ	LEU	В	825	45.547	23.614	35.164	1.00	19.34
3205 CD2 LEU B 825 47.101 23.450 37.096 1.00 22.94 3206 N LEU B 826 43.750 21.674 33.403 1.00 21.69 3207 CA LEU B 826 42.465 21.067 33.072 1.00 21.95 3208 C LEU B 826 42.544 19.533 33.192 1.00 24.10 3209 O LEU B 826 42.544 19.533 33.192 1.00 23.49 3210 CB LEU B 826 42.072 21.462 31.637 1.00 20.89 3211 CG LEU B 826 40.832 20.808 31.017 1.00 23.40 3212 CD1 LEU B 826 39.543 21.272 31.757 1.00 21.60 3213 CD2 LEU B 826 40.759 21.198 29.532 1.00 21.37 3214 N LEU B 827 43.727 18.973 32.953 1.00 21.74 3215 CA LEU B 827 43.902 17.531 32.999 1.00 26.22 50 3216 C LEU B 827 44.732 17.087 34.208 1.00 26.34 3217 O LEU B 827 44.732 17.087 34.208 1.00 27.08 3218 CB LEU B 827 44.620 17.081 31.715 1.00 23.15 3219 CG LEU B 827 44.092 17.626 30.388 1.00 25.05 3220 CD1 LEU B 827 44.092 17.626 30.388 1.00 25.05		3203	CG	LEU	В	825	46.814	24.203	35.786	1.00	22.57
3206 N LEU B 826 43.750 21.674 33.403 1.00 21.69 3207 CA LEU B 826 42.465 21.067 33.072 1.00 21.95 3208 C LEU B 826 42.544 19.533 33.192 1.00 24.10 3209 O LEU B 826 42.544 19.533 33.192 1.00 23.49 3210 CB LEU B 826 42.072 21.462 31.637 1.00 20.89 3211 CG LEU B 826 40.832 20.808 31.017 1.00 23.40 3212 CD1 LEU B 826 39.543 21.272 31.757 1.00 21.60 3213 CD2 LEU B 826 40.759 21.198 29.532 1.00 21.37 3214 N LEU B 827 43.727 18.973 32.953 1.00 21.74 3215 CA LEU B 827 43.902 17.531 32.999 1.00 26.22 50 3216 C LEU B 827 44.732 17.087 34.208 1.00 26.34 3217 O LEU B 827 45.374 16.041 34.157 1.00 27.08 3218 CB LEU B 827 44.620 17.081 31.715 1.00 23.15 3219 CG LEU B 827 44.092 17.626 30.388 1.00 25.05 3220 CD1 LEU B 827 44.092 17.626 30.388 1.00 25.05		3204	CD1	LEU	В	825	46.629	25.698	36.063	1.00	22.91
3206 N LEU B 826 43.750 21.674 33.403 1.00 21.69 3207 CA LEU B 826 42.465 21.067 33.072 1.00 21.95 3208 C LEU B 826 42.544 19.533 33.192 1.00 24.10 3209 O LEU B 826 41.552 18.865 33.499 1.00 23.49 3210 CB LEU B 826 42.072 21.462 31.637 1.00 20.89 3211 CG LEU B 826 40.832 20.808 31.017 1.00 23.40 3212 CD1 LEU B 826 40.759 21.198 29.532 1.00 21.37 3214 N LEU B 827 43.727 18.973 32.953 1.00 21.74 3215 CA LEU B 827 43.727 18.973 32.999 1.00 26.22 50 3216 C LEU B 827 44.732 17.087 34.208 1.00 26.34 3217 O LEU B 827 44.732 17.087 34.208 1.00 27.08 3218 CB LEU B 827 44.620 17.081 31.715 1.00 23.15 3219 CG LEU B 827 44.092 17.626 30.388 1.00 25.05 3220 CD1 LEU B 827 45.027 17.213 29.229 1.00 23.87	25	3205	CD2	LEU	В	825	47.101	23.450	37.096	1.00	22.94
3208 C LEU B 826 42.544 19.533 33.192 1.00 24.10 3209 O LEU B 826 41.552 18.865 33.499 1.00 23.49 3210 CB LEU B 826 42.072 21.462 31.637 1.00 20.89 3211 1 CG LEU B 826 40.832 20.808 31.017 1.00 23.40 3212 CD1 LEU B 826 39.543 21.272 31.757 1.00 21.60 3213 CD2 LEU B 826 40.759 21.198 29.532 1.00 21.37 3214 N LEU B 827 43.727 18.973 32.953 1.00 21.74 3215 CA LEU B 827 43.727 18.973 32.953 1.00 21.74 3216 C LEU B 827 43.902 17.531 32.999 1.00 26.22 3216 C LEU B 827 44.732 17.087 34.208 1.00 26.34 3217 O LEU B 827 45.374 16.041 34.157 1.00 27.08 3218 CB LEU B 827 44.620 17.081 31.715 1.00 23.15 3219 CG LEU B 827 44.092 17.626 30.388 1.00 25.05 3220 CD1 LEU B 827 45.027 17.213 29.229 1.00 23.87	55	3206	N	LEU	В	826	43.750	21.674	33.403	1.00	21.69
40 3209 O LEU B 826 41.552 18.865 33.499 1.00 23.49 3210 CB LEU B 826 42.072 21.462 31.637 1.00 20.89 3211 CG LEU B 826 40.832 20.808 31.017 1.00 23.40 3212 CD1 LEU B 826 39.543 21.272 31.757 1.00 21.60 3213 CD2 LEU B 826 40.759 21.198 29.532 1.00 21.37 3214 N LEU B 827 43.727 18.973 32.953 1.00 21.74 3215 CA LEU B 827 43.902 17.531 32.999 1.00 26.22 50 3216 C LEU B 827 44.732 17.087 34.208 1.00 26.34 3217 O LEU B		3207	CA	LEU	В	826	42.465	21.067	33.072	1.00	21.95
3210 CB LEU B 826 42.072 21.462 31.637 1.00 20.89 3211 1 CG LEU B 826 40.832 20.808 31.017 1.00 23.40 3212 CD1 LEU B 826 39.543 21.272 31.757 1.00 21.60 3213 CD2 LEU B 826 40.759 21.198 29.532 1.00 21.37 3214 N LEU B 827 43.727 18.973 32.953 1.00 21.74 3215 CA LEU B 827 43.902 17.531 32.999 1.00 26.22 50 3216 C LEU B 827 44.732 17.087 34.208 1.00 26.34 3217 O LEU B 827 45.374 16.041 34.157 1.00 27.08 3218 CB LEU B 827 44.620 17.081 31.715 1.00 23.15 3219 CG LEU B 827 44.092 17.626 30.388 1.00 25.05 3220 CD1 LEU B 827 45.027 17.213 29.229 1.00 23.87		3208	С	LEU	В	826	42.544	19.533	33.192	1.00	24.10
3211 1 CG LEU B 826 40.832 20.808 31.017 1.00 23.40 3212 CD1 LEU B 826 39.543 21.272 31.757 1.00 21.60 3213 CD2 LEU B 826 40.759 21.198 29.532 1.00 21.37 3214 N LEU B 827 43.727 18.973 32.953 1.00 21.74 3215 CA LEU B 827 43.902 17.531 32.999 1.00 26.22 3216 C LEU B 827 44.732 17.087 34.208 1.00 26.34 3217 O LEU B 827 45.374 16.041 34.157 1.00 27.08 3218 CB LEU B 827 44.620 17.081 31.715 1.00 23.15 3219 CG LEU B 827 44.092 17.626 30.388 1.00 25.05 3220 CD1 LEU B 827 45.027 17.213 29.229 1.00 23.87	40	3209	0	LEU	В	826	41.552	18.865	33.499	1.00	23.49
3212 CD1 LEU B 826 39.543 21.272 31.757 1.00 21.60 3213 CD2 LEU B 826 40.759 21.198 29.532 1.00 21.37 3214 N LEU B 827 43.727 18.973 32.953 1.00 21.74 3215 CA LEU B 827 43.902 17.531 32.999 1.00 26.22 3216 C LEU B 827 44.732 17.087 34.208 1.00 26.34 3217 O LEU B 827 45.374 16.041 34.157 1.00 27.08 3218 CB LEU B 827 44.620 17.081 31.715 1.00 23.15 3219 CG LEU B 827 44.092 17.626 30.388 1.00 25.05 3220 CD1 LEU B 827 45.027 17.213 29.229 1.00 23.87		3210	СВ	LEU	В	826	42.072	21.462	31.637	1.00	20.89
3213 CD2 LEU B 826 40.759 21.198 29.532 1.00 21.37 3214 N LEU B 827 43.727 18.973 32.953 1.00 21.74 3215 CA LEU B 827 43.902 17.531 32.999 1.00 26.22 3216 C LEU B 827 44.732 17.087 34.208 1.00 26.34 3217 O LEU B 827 45.374 16.041 34.157 1.00 27.08 3218 CB LEU B 827 44.620 17.081 31.715 1.00 23.15 3219 CG LEU B 827 44.092 17.626 30.388 1.00 25.05 3220 CD1 LEU B 827 45.027 17.213 29.229 1.00 23.87		3211 1	CG	LEU	В	826	40.832	20.808	31.017	1.00	23.40
3213 CD2 LEU B 826 40.759 21.198 29.532 1.00 21.37 3214 N LEU B 827 43.727 18.973 32.953 1.00 21.74 3215 CA LEU B 827 43.902 17.531 32.999 1.00 26.22 3216 C LEU B 827 44.732 17.087 34.208 1.00 26.34 3217 O LEU B 827 45.374 16.041 34.157 1.00 27.08 3218 CB LEU B 827 44.620 17.081 31.715 1.00 23.15 3219 CG LEU B 827 44.092 17.626 30.388 1.00 25.05 3220 CD1 LEU B 827 45.027 17.213 29.229 1.00 23.87	45	3212	CD1	LEU	В	826	39.543	21.272	31.757	1.00	21.60
3215 CA LEU B 827 43.902 17.531 32.999 1.00 26.22 3216 C LEU B 827 44.732 17.087 34.208 1.00 26.34 3217 O LEU B 827 45.374 16.041 34.157 1.00 27.08 3218 CB LEU B 827 44.620 17.081 31.715 1.00 23.15 3219 CG LEU B 827 44.092 17.626 30.388 1.00 25.05 3220 CD1 LEU B 827 45.027 17.213 29.229 1.00 23.87		3213	CD2	LEU	В	826	40.759	21.198	29.532	1.00	21.37
50 3216 C LEU B 827 44.732 17.087 34.208 1.00 26.34 3217 O LEU B 827 45.374 16.041 34.157 1.00 27.08 3218 CB LEU B 827 44.620 17.081 31.715 1.00 23.15 3219 CG LEU B 827 44.092 17.626 30.388 1.00 25.05 3220 CD1 LEU B 827 45.027 17.213 29.229 1.00 23.87		3214	N	LEU	В	827	43.727	18.973	32.953	1.00	21.74
3217 O LEU B 827 45.374 16.041 34.157 1.00 27.08 3218 CB LEU B 827 44.620 17.081 31.715 1.00 23.15 3219 CG LEU B 827 44.092 17.626 30.388 1.00 25.05 3220 CD1 LEU B 827 45.027 17.213 29.229 1.00 23.87		3215	CA	LEU	В	827	43.902	17.531	32.999	1.00	26.22
3218 CB LEU B 827 44.620 17.081 31.715 1.00 23.15 3219 CG LEU B 827 44.092 17.626 30.388 1.00 25.05 3220 CD1 LEU B 827 45.027 17.213 29.229 1.00 23.87	50	3216	С	LEU	В	827	44.732	17.087	34.208	1.00	26.34
3219 CG LEU B 827 44.092 17.626 30.388 1.00 25.05 3220 CD1 LEU B 827 45.027 17.213 29.229 1.00 23.87		3217	0	LEU	В	827	45.374	16.041	34.157	1.00	27.08
3220 CD1 LEU B 827 45.027 17.213 29.229 1.00 23.87		3218	СВ	LEU	В	827	44.620	17.081	31.715	1.00	23.15
3220 CD1 LEU B 827 45.027 17.213 29.229 1.00 23.87	55	3219	CG	LEU	В	827	44.092	17.626	30.388	1.00	25.05
3221 CD2 LEU B 827 42.672 17.097 30.180 1.00 24.70		3220	CD1	LEU	В	827	45.027	17.213	29.229	1.00	23.87
		3221	CD2	LEU	В	827	42.672	17.097	30.180	1.00	24.70

TABLE 10 (continued)

		THREE	-DIMENSION	IAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	3222	N	ASN	В	828	44.702	17.855	35.295	1.00	26.63
	3223	CA	ASN	В	828	45.531	17.537	36.466	1.00	23.58
	3224	С	ASN	В	828	44.887	16.756	37.625	1.00	26.70
10	3225	0	ASN	В	828	45.534	16.519	38.639	1.00	25.23
	3226	СВ	ASN	В	828	46.130	18.838	37.025	1.00	28.11
	3227	CG	ASN	В	828	47.592	18.685	37.418	1.00	37.40
	3228	OD1	ASN	В	828	48.159	19.529	38.113	1.00	38.18
15	3229	ND2	ASN	В	828	48.213	17.617	36.947	1.00	33.20
	3230	N	THR	В	829	43.621	16.377	37.499	1.00	23.98
	3231	CA	THR	В	829	42.938	15.622	38.552	1.00	23.70
20	3232	С	THR	В	829	41.947	14.683	37.866	1.00	25.10
	3233	0	THR	В	829	41.250	15.100	36.952	1.00	25.89
	3234	СВ	THR	В	829	42.133	16.555	39.496	1.00	24.60
	3235	OG1	THR	В	829	42.984	17.586	40.006	1.00	28.70
25	3236	CG2	THR	В	829	41.557	15.760	40.661	1.00	28.67
	3237	N	ILE	В	830	41.887	13.427	38.295	1.00	22.29
	3238	CA	ILE	В	830	40.969	12.442	37.715	1.00	24.53
30	3239	С	ILE	В	830	40.210	11.721	38.848	1.00	24.95
	3240	0	ILE	В	830	40.627	11.783	40.005	1.00	20.63
	3241	СВ	ILE	В	830	41.795	11.428	36.877	1.00	28.68
35	3242	CG1	ILE	В	830	42.571	12.177	35.799	1.00	30.48
33	3243	CG2	ILE	В	830	40.913	10.426	36.194	1.00	36.11
	3244	CD1	ILE	В	830	41.689	12.930	34.851	1.00	43.97
	3245	N	PRO	В	831	39.067	11.070	38.544	1.00	23.25
40	3246	CA	PRO	В	831	38.351	10.377	39.616	1.00	24.91
	3247	С	PRO	В	831	39.232	9.258	40.168	1.00	31.60
	3248	0	PRO	В	831	40.238	8.897	39.558	1.00	30.37
45	3249	СВ	PRO	В	831	37.122	9.822	38.900	1.00	29.20
70	3250	CG	PRO	В	831	36.909	10.831	37.777	1.00	27.01
	3251	CD	PRO	В	831	38.324	10.924	37.277	1.00	22.94
	3252	N	LEU	В	832	38.863	8.724	41.325	1.00	29.91
50	3253	CA	LEU	В	832	39.632	7.630	41.911	1.00	35.35
	3254	С	LEU	В	832	39.541	6.396	41.017	1.00	34.24
	3255	0	LEU	В	832	40.499	5.638	40.898	1.00	42.02
55	3256	СВ	LEU	В	832	39.103	7.304	43.312	1.00	31.75
	3257	CG	LEU	В	832	39.307	8.462	44.291	1.00	37.36
	3258	CD1	LEU	В	832	38.703	8.121	45.640	1.00	38.79

TABLE 10 (continued)

		THREE	-DIMENSION	IAL CC	ORDINA	ATES OF P	R IN COMPL	EX WITH PG)	
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	3259	CD2	LEU	В	832	40.793	8.762	44.419	1.00	38.51
	3260	N	GLU	В	833	38.394	6.223	40.369	1.00	37.07
	3261	CA	GLU	В	833	38.157	5.079	39.495	1.00	40.48
10	3262	С	GLU	В	833	38.648	5.346	38.078	1.00	36.29
	3263	0	GLU	В	833	38.431	4.532	37.177	1.00	39.85
	3264	СВ	GLU	В	833	36.656	4.756	39.435	1.00	43.67
45	3265	CG	GLU	В	833	35.832	5.259	40.620	1.00	59.82
15	3266	CD	GLU	В	833	35.634	6.772	40.595	1.00	59.36
	3267	OE1	GLU	В	833	34.979	7.261	39.652	1.00	65.43
	3268	OE2	GLU	В	833	36.135	7.471	41.502	1.00	61.15
20	3269	N	GLY	В	834	39.307	6.481	37.880	1.00	33.66
	3270	CA	GLY	В	834	39.783	6.828	36.558	1.00	32.35
	3271	C	GLY	В	834	38.640	7.338	35.694	1.00	29.12
25	3272	0	GLY	В	834	37.489	7.379	36.128	1.00	28.18
25	3273	N	LEU	В	835	38.954	7.719	34.468	1.00	28.73
	3274	CA	LEU	В	835	37.947	8.228	33.532	1.00	31.82
	3275	С	LEU	В	835	37.397	7.131	32.613	1.00	30.35
30	3276	0	LEU	В	835	37.987	6.058	32.503	1.00	33.32
	3277	СВ	LEU	В	835	38.579	9.312	32.671	1.00	25.42
	3278	CG	LEU	В	835	39.101	10.535	33.411	1.00	28.35
35	3279	CD1	LEU	В	835	40.019	11.335	32.491	1.00	26.14
00	3280	CD2	LEU	В	835	37.935	11.374	33.882	1.00	25.47
	3281	N	ARG	В	836	36.283	7.405	31.938	1.00	32.23
	3282	CA	ARG	В	836	35.721	6.422	31.012	1.00	33.49
40	3283	С	ARG	В	836	36.602	6.367	29.764	1.00	32.90
	3284	0	ARG	В	836	36.700	5.328	29.102	1.00	35.77
	3285	СВ	ARG	В	836	34.290	6.787	30.629	1.00	32.58
45	3286	CG	ARG	В	836	33.302	6.699	31.780	1.00	45.22
	3287	CD	ARG	В	836	31.880	6.883	31.280	1.00	50.46
	3288	NE	ARG	В	836	31.554	5.891	30.254	1.00	63.72
:	3289	CZ	ARG	В	836	30.366	5.771	29.671	1.00	61.91
50	3290	NH1	ARG	В	836	29.372	6.586	30.004	1.00	64.45
	3291	NH2	ARG	В	836	30.173	4.837	28.748	1.00	68.06
	3292	N	SER	В	837	37.237	7.490	29.445	1.00	27.88
55	3293	CA	SER	В	837	38.130	7.577	28.297	1.00	30.32
-	3294	С	SER	В	837	39.564	7.712	28.814	1.00	29.09
	3295	0	SER	В	837	40.341	8.538	28.353	1.00	25.31

		TUDES	-DIMENSION			(continued		EX WITH PG		
					X	Υ	Z	occ	В	ATOM
5	ATOM	ATOM TYPE	RESIDUE	#			8.785	27.431	1.00	33.53
-	3296	СВ	SER	В	837	37.758	8.698	26.991	1.00	32.13
	3297	OG	SER	B	837			29.772	1.00	32.66
	3298	N	GLN	В	838	39.912	6.867	30.355	1.00	30.97
10	3299	CA	GLN	В	838	41.242	6.907	29.330	1.00	32.88
	3300	С	GLN	В	838	42.377	6.811		1.00	29.00
	3301	0	GLN	В	838	43.378	7.515	29.448	1.00	37.64
15	3302	СВ	GLN	В	838	41.392	5.798	31.402		34.77
15	3303	CG	GLN	В	838	42.645	5.953	32.253	1.00	
	3304	CD	GLN	В	838	42.619	7.213	33.117	1.00	42.70
	3305	OE1	GLN	В	838	43.665	7.713	33.533	1.00	43.05
20	3306	NE2	GLN	В	838	41.424	7.718	33.404	1.00	40.24
	3307	N	THR	В	839	42.236	5.957	28.320	1.00	32.29
	3308	CA	THR	В	839	43.291	5.829	27.321	1.00	32.08
25	3309	С	THR	В	839	43.495	7.122	26.538	1.00	30.37
25	3310	0	THR	В	839	44.623	7.583	26.369	1.00	27.02
	3311 1	СВ	THR	В	839	42.994	4.685	26.316	1.00	36.84
	3312	OG1	THR	В	839	42.914	3.442	27.021	1.00	33.01
30	3313	CG2	THR	В	839	44.106	4.593	25.253	1.00	34.47
	3314	N	GLN	В	840	42.403	7.709	26.057	1.00	27.73
	3315	CA	GLN	В	840	42.501	8.945	25.292	1.00	28.34
	3316	С	GLN	В	840	43.027	10.070	26.168	1.00	28.06
35	3317	0	GLN	В	840	43.735	10.963	25.700	1.00	26.67
	3318	СВ	GLN	В	840	41.142	9.339	24.711	1.00	32.45
	3319	CG	GLN	В	840	40.481	8.269	23.836	1.00	46.64
40	3320	CD	GLN	В	840	39.661	7.236	24.617	1.00	53.33
	3321	OE1	GLN	В	840	40.172	6.514	25.478	1.00	44.62
	3322	NE2	GLN	В	840	38.370	7.169	24.306	1.00	55.68
	3323	N	PHE	В	841	42.666	10.021	27.444	1.00	24.94
45	3324	CA	PHE	В	841	43.108	11.018	28.397	1.00	27.01
	3325	С	PHE	В	841	44.619	10.962	28.540	1.00	23.28
	3326	0	PHE	В	841	45.293	11.981	28.443	1.00	22.03
50	3327	СВ	PHE	В	841	42.480	10.769	29.767	1.00	25.37
	3328	CG	PHE	В	841	43.038	11.651	30.844	1.00	22.03
	3329	CD1	PHE	В	841	42.632	12.965	30.962	1.00	26.46
	3330	CD2	PHE	В	841	44.005	11.166	31.719	1.00	26.10
55	3331	CE1	PHE	В	841	43.174	13.799	31.937	1.00	25.57
	3332	CE2	PHE	В	841	44.561	11.995	32.703	1.00	25.36
		1								

		THREE	-DIMENSION	NAL CC	ORDINA	TES OF F	R IN COMPL	EX WITH PG	i	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	3333	CZ	PHE	В	841	44.141	13.313	32.808	1.00	25.63
	3334	N	GLU	В	842	45.152	9.770	28.781	1.00	27.54
	3335	CA	GLU	В	842	46.607	9.639	28.939	1.00	29.02
10	3336	C	GLU	В	842	47.347	10.143	27.717	1.00	25.06
	3337	0	GLU	В	842	48.357	10.826	27.837	1.00	27.55
	3338	СВ	GLU	В	842	47.010	8.183	29.199	1.00	36.85
45	3339	CG	GLU	В	842	46.593	7.628	30.568	1.00	46.79
15	3340	CD	GLU	В	842	47.223	8.376	31.741	1.00	50.21
	3341	OE1	GLU	В	842	47.948	9.364	31.510	1.00	51.33
	3342	OE2	GLU	В	842	46.987	7.974	32.901	1.00	54.97
20	3343	N	GLU	В	843	46.849	9.795	26.535	1.00	27.99
	3344	CA	GLU	В	843	47.484	10.235	25.302	1.00	29.91
	3345	С	GLU	В	843	47.455	11.750	25.197	1.00	24.87
25	3346	0	GLU	В	843	48.445	12.375	24.829	1.00	25.77
25	3347	СВ	GLU	В	843	46.788	9.619	24.084	1.00	33.71
	3348	CG	GLU	В	843	46.809	8.087	24.081	1.00	43.17
	3349	CD	GLU	В	843	46.362	7.487	22.761	1.00	47.10
30	3350	OE1	GLU	В	843	46.082	8.258	21.822	1.00	53.30
	3351	OE2	GLU	В	843	46.304	6.241	22.656	1.00	50.03
	3352	N	MET	В	844	46.319	12.345	25.542	1.00	25.91
·35	3353	CA	MET	В	844	46.168	13.787	25.468	1.00	23.10
	3354	С	MET	В	844	47.064	14.475	26.490	1.00	22.35
	3355	0	MET	В	844	47.746	15.454	26.184	1.00	23.84
	3356	СВ	MET	В	844	44.711	14.182	25.722	1.00	24.04
40	3357	CG	MET	В	844	44.442	15.681	25.592	1.00	27.46
	3358	SD	MET	В	844	42.709	16.055	26.067	1.00	29.20
	3359	CE	MET	В	844	42.699	17.809	25.977	1.00	22.37
45	3360	N	ARG	В	845	47.046	13.975	27.716	1.00	25.23
	3361	CA	ARG	В	845	47.887	14.574	28.740	1.00	29.00
	3362	С	ARG	В	845	49.353	14.423	28.345	1.00	27.50
	3363	0	ARG	В	845	50.121	15.372	28.446	1.00	25.08
50	3364	СВ	ARG	В	845	47.613	13.934	30.101	1.00	27.08
	3365	CG	ARG	В	845	48.367	14.594	31.240	1.00	37.67
	3366	CD	ARG	В	845	47.781	14.196	32.586	1.00	36.90
55	3367	NE	ARG	В	845	48.525	14.771	33.705	1.00	51.09
	3368	CZ	ARG	В	845	49.746	14.390	34.063	1.00	42.11
	3369	NH1	ARG	В	845	50.363	13.422	33.400	1.00	50.54

TABLE 10 (continued)

		THREE	E-DIMENSION	NAL CO	ORDIN	ATES OF F	PR IN COMPL	EX WITH PO	à	
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	3370	NH2	ARG	В	845	50.345	14.969	35.091	1.00	47.30
	3371	N	SER	В	846	49.742	13.240	27.871	1.00	26.92
	3372	CA	SER	В	846	51.134	13.049	27.463	1.00	28.80
10	3373	С	SER	В	846	51.480	14.022	26.331	1.00	25.62
	3374	0	SER	В	846	52.563	14.601	26.285	1.00	25.05
	3375	СВ	SER	В	846	51.348	11.595	27.021	1.00	27.15
15	3376	OG	SER	В	846	51.189	10.730	28.138	1.00	31.19
15	3377	N	SER	В	847	50.532	14.220	25.422	1.00	27.30
	3378	CA	SER	В	847	50.727	15.117	24.294	1.00	22.26
	3379	С	SER	В	847	51.003	16.551	24.715	1.00	28.59
20	3380	0	SER	В	847	51.886	17.207	24.154	1.00	25.88
	3381	СВ	SER	В	847	49.494	15.060	23.382	1.00	31.83
	3382	OG	SER	В	847	49.605	15.975	22.305	1.00	37.65
25	3383	N	TYR	В	848	50.243	17.057	25.686	1.00	24.14
23	3384	CA	TYR	В	848	50.452	18.423	26.145	1.00	24.20
	3385	С	TYR	В	848	51.718	18.555	26.995	1.00	21.09
	3386	0	TYR	В	848	52.310	19.629	27.051	1.00	22.03
30	3387	СВ	TYR	В	848	49.209	18.922	26.891	1.00	20.70
	3388	CG	TYR	В	848	48.113	19.361	25.925	1.00	22.54
	3389	CD1	TYR	В	848	48.205	20.577	25.257	1.00	17.53
35	3390	CD2	TYR	В	848	47.042	18.516	25.618	1.00	24.44
	3391	CE1	TYR	В	848	47.249	20.959	24.294	1.00	22.50
	3392	CE2	TYR	В	848	46.086	18.880	24.660	1.00	21.73
	3393	CZ	TYR	В	848	46.196	20.097	24.007	1.00	23.06
40	3394	ОН	TYR	В	848	45.247	20.476	23.077	1.00	27.42
	3395	N	ILE	В	849	52.113	17.482	27.675	1.00	22.59
	3396	CA	ILE	В	849	53.357	17.533	28.457	1.00	25.53
45	3397	С	ILE	В	849	54.491	17.695	27.436	1.00	26.66
	3398	0	ILE	В	849	55.391	18.529	27.608	1.00	25.61
	3399	СВ	ILE	В	849	53.569	16.237	29.284	1.00	29.06
	3400	CG1	ILE	В	849	52.549	16.192	30.423	1.00	26.54
50	3401	CG2	ILE	В	849	55.020	16.172	29.847	1.00	23.64
	3402	CD1	ILE	В	849	52.581	14.899	31.199	1.00	27.17
	3403	N	ARG	В	850	54.436	16.910	26.363	1.00	24.89
55	3404	CA	ARG	В	850	55.453	17.016	25.319	1.00	25.68
	3405	С	ARG	В	850	55.424	18.403	24.686	1.00	27.78
Ĺ	3406	0	ARG	В	850	56.464	18.918	24.266	1.00	27.55

		THREE	-DIMENSION	IAL CC	ORDINA	TES OF F	R IN COMPL	EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	3407	СВ	ARG	В	850	55.255	15.957	24.226	1.00	26.91
	3408	CG	ARG	В	850	55.521	14.511	24.663	1.00	27.09
	3409	CD	ARG	В	850	55.646	13.575	23.458	1.00	29.81
10	3410	NE	ARG	В	850	54.413	13.394	22.686	1.00	31.76
	3411	CZ	ARG	В	850	53.402	12.598	23.037	1.00	31.98
	3412	NH1	ARG	В	850	53.448	11.880	24.160	1.00	35.55
	3413	NH2	ARG	В	850	52.340	12.504	22.254	1.00	34.47
15	3414	N	GLU	В	851	54.242	19.018	24.620	1.00	27.13
	3415	CA	GLU	В	851	54.133	20.358	24.029	1.00	22.10
	3416	С	GLU	В	851	54.765	21.378	24.987	1.00	27.46
20	3417	0	GLU	В	851	55.394	22.347	24.551	1.00	29.77
	3418	СВ	GLU	В	851	52.664	20.719	23.761	1.00	30.54
	3419	CG	GLU	В	851	52.505	21.829	22.716	1.00	32.90
25	3420	CD	GLU	В	851	53.026	21.401	21.338	1.00	42.32
23	3421	OE1	GLU	В	851	53.314	20.191	21.155	1.00	33.77
	3422	OE2	GLU	В	851	53.140	22.266	20.439	1.00	34.60
	3423	N	LEU	В	852	54.587	21.168	26.293	1.00	23.76
30	3424	CA	LEU	В	852	55.204	22.064	27.265	1.00	26.78
	3425	С	LEU	В	852	56.726	22.019	27.067	1.00	22.14
	3426	0	LEU	В	852	57.399	23.046	27.101	1.00	26.98
35	3427	СВ	LEU	В	852	54.879	21.625	28.687	1.00	22.84
55	3428	CG	LEU	В	852	55.560	22.451	29.782	1.00	26.06
	3429	CD1	LEU	В	852	55.271	23.923	29.577	1.00	23.63
	3430	CD2	LEU	В	852	55.080	21.993	31.145	1.00	26.99
40	3431	N	ILE	В	853	57.251	20.810	26.876	1.00	28.61
	3432	CA	ILE	В	853	58.689	20.628	26.690	1.00	24.00
	3433	С	ILE	В	853	59.166	21.389	25.458	1.00	27.59
45	3434	0	ILE	В	853	60.267	21.929	25.453	1.00	29.87
	3435	СВ	ILE	В	853	59.031	19.136	26.574	1.00	26.82
	3436	CG1	ILE	В	853	58.737	18.458	27.919	1.00	25.90
	3437	CG2	ILE	В	853	60.478	18.972	26.104	1.00	24.70
50	3438	CD1	ILE	В	853	58.685	16.935	27.876	1.00	23.86
	3439	N	LYS	В	854	58.343	21.442	24.411	1.00	24.04
	3440	CA	LYS	В	854	58.725	22.192	23.215	1.00	28.78
55	3441	С	LYS	В	854	58.668	23.690	23.497	1.00	28.51
	3442	0	LYS	В	854	59.508	24.457	23.020	1.00	29.04
	3443	СВ	LYS	В	854	57.788	21.893	22.039	1.00	29.18

TABLE 10 (continued)

	THREE	E-DIMENSION	NAL CC	ORDINA	ATES OF P	R IN COMPL	EX WITH PG	ì	
ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATO
3444	CG	LYS	В	854	57.765	20.460	21.555	1.00	33.
3445	CD	LYS	В	854	56.758	20.366	20.418	1.00	35.
3446	CE	LYS	В	854	56.587	18.960	19.913	1.00	48.
3447	NŻ	LYS	В	854	55.515	18.932	18.876	1.00	43.
3448	N	ALA	В	855	57.661	24.112	24.256	1.00	28.
3449	CA	ALA	В	855	57.504	25.535	24.592	1.00	25.
3450	С	ALA	В	855	58.719	26.035	25.379	1.00	26.
3451	0	ALA	B.	855	59.203	27.156	25.185	1.00	25.
3452	СВ	ALA	В	855	56.218	25.745	25.417	1.00	29.
3453	N	ILE	В	856	59.194	25.204	26.292	1.00	27.
3454	CA	ILE	В	856	60.361	25.562	27.073	1.00	27.
3455	С	ILE	В	856	61.543	25.659	26.100	1.00	34.
3456	0	ILE	В	856	62.414	26.522	26.230	1.00	30.
3457	СВ	ILE	В	856	60.672	24.481	28.116	1.00	30.
3458	CG1	ILE	В	856	59.582	24.474	29.197	1.00	30.
3459	CG2	ILE	В	856	62.060	24.718	28.725	1.00	30.
3460	CD1	ILE	В	856	59.729	23.310	30.188	1.00	28.
3461	N	GLY	В	857	61.540	24.771	25.113	1.00	32.
3462	CA	GLY	В	857	62.618	24.739	24.141	1.00	37.
3463	С	GLY	В	857	62.769	26.010	23.330	1.00	39.
3464	0	GLY	В	857	63.836	26.269	22.777	1.00	38.
3465	N	LEU	В	858	61.712	26.809	23.257	1.00	42.
3466	CA	LEU	В	858	61.747	28.048	22.486	1.00	44.
3467	С	LEU	В	858	62.711	29.110	23.012	1.00	49.
3468	0	LEU	В	858	63.281	29.877	22.236	1.00	47.
3469	СВ	LEU	В	858	60.344	28.649	22.405	1.00	45.
3470	CG	LEU	В	858	59.304	27.814	21.663	1.00	42.
3471	CD1	LEU	В	858	57.941	28.491	21.752	1.00	47.
3472	CD2	LEU	В	858	59.733	27.651	20.217	1.00	47.
3473	N	ARG	В	859	62.887	29.171	24.323	1.00	51.
3474	CA	ARG	В	859	63.774	30.170	24.899	1.00	60.
3475	С	ARG	В	859	64.948	29.538	25.620	1.00	63.
3476	0	ARG	В	859	66.088	29.648	25.172	1.00	66.
3477	СВ	ARG	В	859	62.994	31.080	25.852	1.00	60
3478	CG	ARG	В	859	61.946	31.931	25.147	1.00	66.
3479	CD	ARG	В	859	61.112	32.750	26.120	1.00	65.
3480	NE	ARG	В	859	60.150	33.601	25.422	1.00	72.

		THREE	-DIMENSION	NAL CC	ORDINA	ATES OF P	R IN COMPL	EX WITH PG	i	
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	3481	CZ	ARG	В	859	59.228	33.155	24.573	1.00	75.01
	3482	NH1	ARG	В	859	59.134	31.857	24.305	1.00	74.54
	3483	NH2	ARG	В	859	58.394	34.006	23.990	1.00	77.06
10	3484	N	GLN	В	860	64.670	28.876	26.736	1.00	67.91
	3485	CA	GLN	В	860	65.730	28.235	27.492	1.00	67.91
	3486	C	GLN	В	860	66.514	27.268	26.623	1.00	70.16
4.5	3487	0	GLN	В	860	66.108	26.124	26.403	1.00	66.29
15	3488	СВ	GLN	В	860	65.167	27.527	28.731	1.00	68.82
	3489	CG	GLN	В	860	64.975	28.461	29.925	1.00	70.16
	3490	CD	GLN	В	860	63.978	29.584	29.675	1.00	73.18
20	3491	OE1	GLN	В	860	63.922	30.553	30.434	1.00	75.31
	3492	NE2	GLN	В	860	63.172	29.449	28.629	1.00	74.53
	3493	N	LYS	В	861	67.636	27.766	26.110	1.00	70.28
25	3494	CA	LYS	В	861	68.527	26.982	25.274	1.00	70.98
25	3495	С	LYS	В	861	69.480	26.247	26.205	1.00	69.66
	3496	0	LYS	В	861	70.017	26.833	27.149	1.00	69.56
	3497	СВ	LYS	В	861	69.334	27.889	24.342	1.00	73.98
30	3498	CG	LYS	В	861	68.512	28.696	23.352	1.00	76.75
	3499	CD	LYS	В	861	67.728	27.806	22.403	1.00	79.85
	3500	CE	LYS	В	861	67.077	28.623	21.296	1.00	82.15
35	3501	NZ	LYS	В	861	66.190	29.694	21.820	1.00	83.45
55	3502	N	GLY	В	862	69.687	24.964	25.942	1.00	65.51
	3503	CA	GLY	В	862	70.581	24.187	26.777	1.00	62.36
	3504	С	GLY	В	862	69.870	23.045	27.473	1.00	58.94
40	3505	0	GLY	В	862	68.786	23.219	28.027	1.00	55.70
	3506	N	VAL	В	863	70.496	21.874	27.450	1.00	55.20
	3507	CA	VAL	В	863	69.934	20.680	28.063	1.00	54.32
45	3508	С	VAL	В	863	69.691	20.830	29.567	1.00	52.94
	3509	0	VAL	В	863	68.643	20.436	30.070	1.00	51.71
	3510	СВ	VAL	В	863	70.850	19.461	27.812	1.00	53.87
	3511	CG1	VAL	В	863	72.228	19.710	28.406	1.00	54.75
50 ·	3512	CG2	VAL	В	863	70.228	18.212	28.405	1.00	55.92
	3513	N	VAL	В	864	70.651	21.404	30.282	1.00	51.96
	3514	CA	VAL	В	864	70.513	21.578	31.725	1.00	50.09
55	3515	С	VAL	В	864	69.445	22.622	32.065	1.00	49.79
	3516	0	VAL	В	864	68.577	22.383	32.903	1.00	46.15
	3517	СВ	VAL	В	864	71.864	22.001	32.372	1.00	50.90

TABLE 10 (continued)

		THREE	-DIMENSION	IAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	3518	CG1	VAL	В	864	71.740	21.991	33.889	1.00	49.47
	3519	CG2	VAL	В	864	72.973	21.056	31.936	1.00	46.98
	3520	N	SER	В	865	69.504	23.772	31.403	1.00	43.87
10	3521	CA	SER	В	865	68.539	24.830	31.653	1.00	46.16
	3522	С	SER	В	865	67.124	24.366	31.314	1.00	43.21
	3523	0	SER	В	865	66.178	24.660	32.045	1.00	41.52
	3524	СВ	SER	В	865	68.893	26.066	30.828	1.00	46.68
15	3525	OG	SER	В	865	68.014	27.136	31.116	1.00	59.14
	3526	N	SER	В	866	66.988	23.628	30.215	1.00	40.92
	3527	CA	SER	В	866	65.682	23.139	29.776	1.00	35.24
20	3528	С	SER	В	866	65.071	22.097	30.695	1.00	40.63
	3529	0	SER	В	866	63.874	22.154	30.980	1.00	32.01
	3530	СВ	SER	В	866	65.772	22.565	28.362	1.00	37.02
	3531	OG	SER	В	866	66.142	23.573	27.443	1.00	45.95
25	3532	N	SER	В	867	65.877	21.134	31.146	1.00	37.03
	3533	CA	SER	В	867	65.372	20.099	32.040	1.00	36.93
	3534	С	SER	В	867	65.077	20.710	33.407	1.00	40.17
30	3535	0	SER	В	867	64.149	20.282	34.099	1.00	35.95
	3536	СВ	SER	В	867	66.382	18.952	32.187	1.00	40.92
	3537	OG	SER	В	867	67.556	19.387	32.850	1.00	48.34
<i>35</i>	3538	N	GLN	В	868	65.872	21.697	33.810	1.00	37.09
33	3539	CA	GLN	В	868	65.623	22.354	35.093	1.00	41.94
	3540	С	GLN	В	868	64.340	23.189	35.025	1.00	34.5 ₅
	3541	0	GLN	В	868	63.579	23.242	35.990	1.00	35.43
40	3542	СВ	GLN	В	868	66.790	23.267	35.490	1.00	43.10
	3543	CG	GLN	В	868	68.042	22.519	35.954	1.00	54.16
	3544	CD	GLN	В	868	69.125	23.450	36.495	1.00	59.01
45	3545	OE1	GLN	В	868	70.155	22.994	36.992	1.00	60.70
,,,	3546	NE2	GLN	В	868	68.893	24.759	36.399	1.00	59.00
	3547	N	ARG	В	869	64.112	23.847	33.893	1.00	34.25
	3548	CA	ARG	В	869	62.918	24.666	33.746	1.00	32.37
50	3549	С	ARG	В	869	61.673	23.778	33.716	1.00	33.17
	3550	0	ARG	В	869	60.633	24.147	34.262	1.00	32.22
	3551	СВ	ARG	В	869	63.001	25.541	32.500	1.00	34.11
55	3552	CG	ARG	В	869	61.908	26.619	32.493	1.00	39.35
	3553	CD	ARG	В	869	62.127	27.633	31.406	1.00	42.79
	3554	NE	ARG	В	869	61.101	28.672	31.368	1.00	40.15

TABLE 10 (continued)

	THREE	E-DIMENSION	VAL CO	ORDIN	ATES OF F	R IN COMPL	EX WITH PO	ì	
ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATO
3555	CZ	ARG	В	869	60.828	29.522	32.350	1.00	39.
3556	NH1	ARG	В	869	61.502	29.478	33.492	1.00	43.
3557	NH2	ARG	В	869	59.867	30.425	32.185	1.00	36.
3558	N	PHE	В	870	61.781	22.601	33.101	1.00	30.
3559	CA	PHE	В	870	60.670	21.651	33.078	1.00	30.
3560	С	PHE	В	870	60.299	21.259	34.516	1.00	35.
3561	0	PHE	В	870	59.117	21.156	34.857	1.00	30.
3562	СВ	PHE	В	870	61.042	20.373	32.330	1.00	34.
3563	CG	PHE	В	870	59.923	19.373	32.263	1.00	31.
3564	CD1	PHE	В	870	58.818	19.607	31.449	1.00	34.
3565	CD2	PHE	В	870	59.949	18.225	33.041	1.00	36.
3566	CE1	PHE	В	870	57.758	18.715	31.412	1.00	34.
3567	CE2	PHE	В	870	58.887	17.322	33.012	1.00	42.
3568	CZ	PHE	В	870	57.789	17.569	32.195	1.00	35.
3569	N	TYR	В	871	61.305	21.021	35.358	1.00	28.
3570	CA	TYR	В	871	61.029	20.653	36.746	1.00	32.
3571	С	TYR	В	871	60.381	21.809	37.513	1.00	31.
3572	0	TYR	В	871	59.464	21.590	38.313	1.00	32.
3573	СВ	TYR	В	871	62.314	20.183	37.459	1.00	33.
3574	CG	TYR	В	871	62.117	19.878	38.930	1.00	37.
3575	CD1	TYR	В	871	62.099	20.902	39.883	1.00	44.
3576	CD2	TYR	В	871	61.895	18.571	39.368	1.00	45.
3577	CE1	TYR	В	871	61.863	20.632	41.233	1.00	42.
3578	CE2	TYR	В	871	61.657	18.289	40.722	1.00	47.
3579	CZ	TYR	В	871	61.641	19.326	41.646	1.00	50.
3580	ОН	TYR	В	871	61.393	19.061	42.978	1.00	55.
3581	N	GLN	В	872	60.853	23.032	37.268	1.00	29.
3582	CA	GLN	В	872	60.298	24.216	37.935	1.00	32.
3583	С	GLN	В	872	58.832	24.460	37.566	1.00	31.
3584	0	GLN	В	872	57.986	24.675	38.444	1.00	28.
3585	СВ	GLN	В	872	61.075	25.476	37.568	1.00	29.
3586	CG	GLN	В	872	62.498	25.554	38.096	1.00	42.
3587	CD	GLN	В	872	63.207	26.805	37.605	1.00	43.
3588	OE1	GLN	В	872	63.427	26.978	36.405	1.00	48.
3589	NE2	GLN	В	872	63.554	27.690	38.529	1.00	54.
3590	N	LEU	В	873	58.541	24.449	36.267	1.00	30.
3591	CA	LEU	В	873	57.176	24.686	35.806	1.00	30.

TABLE 10 (continued)

		THREE	-DIMENSION	IAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
	3592	С	LEU	В	873	56.205	23.598	36.234	1.00	35.12
	3593	0	LEU	В	873	55.051	23.889	36.590	1.00	32.42
	3594	СВ	LEU	В	873	57.146	24.876	34.284	1.00	31.46
	3595	CG	LEU	В	873	57.871	26.154	33.836	1.00	25.50
	3596	CD1	LEU	В	873	57.739	26.342	32.322	1.00	26.12
	3597	CD2	LEU	В	873	57.293	27.359	34.569	1.00	30.31
	3598	N	THR	В	874	56.650	22.348	36.208	1.00	32.47
	3599	CA	THR	в	874	55.777	21.274	36.631	1.00	31.43
ļ	3600	С	THR	В	874	55.664	21.315	38.158	1.00	33.30
	3601	0	THR	В	874	54.610	21.009	38.713	1.00	32.00
İ	3602	СВ	THR	В	874	56.292	19.883	36.157	1.00	33.76
	3603	OG1	THR	В	874	57.628	19.683	36.610	1.00	36.17
	3604	CG2	THR	В	874	56.261	19.788	34.628	1.00	31.16
	3605	N	LYS	В	875	56.736	21.710	38.842	1.00	31.72
	3606	CA	LYS	В	875	56.677	21.780	40.303	1.00	35.19
	3607	С	LYS	В	875	55.701	22.895	40.688	1.00	33.68
	3608	0	LYS	В	875	54.983	22.794	41.686	1.00	33.61
	3609	СВ	LYS	В	875	58.062	22.067	40.907	1.00	37.62
	3610	CG	LYS	В	875	58.091	21.945	42.429	1.00	40.41
	3611	CD	LYS	В	875	57.761	20.509	42.843	1.00	43.28
	3612	CE	LYS	В	875	57.618	20.357	44.354	1.00	41.31
	3613	NZ	LYS	В	875	57.273	18.939	44.712	1.00	45.62
	3614	N	LEU	В	876	55.682	23.958	39.890	1.00	30.46
	3615	CA	LEU	В	876	54.782	25.081	40.129	1.00	34.18
	3616	С	LEU	В	876	53.345	24.568	40.037	1.00	33.33
	3617	0	LEU	В	876	52.510	24.892	40.881	1.00	32.77
	3618	СВ	LEU	В	876	55.026	26.179	39.093	1.00	35.40
	3619	CG	LEU	В	876	54.302	27.520	39.218	1.00	35.72
	3620	CD1	LEU	В	876	54.848	28.485	38.179	1.00	42.08
	3621	CD2	LEU	В	876	52.806	27.336	39.039	1.00	42.68
	3622	N	LEU	В	877	53.060	23.754	39.022	1.00	29.58
	3623	CA	LEU	В	877	51.721	23.208	38.869	1.00	30.87
ļ	3624	С	LEU	В	877	51.345	22.311	40.053	1.00	34.72
	3625	0	LEU	В	877	50.220	22.392	40.555	1.00	31.85
	3626	СВ	LEU	В	877	51.601	22.439	37.544	1.00	32.60
	3627	CG	LEU	В	877	51.708	23.298	36.274	1.00	33.97
	3628	CD1	LEU	В	877	51.665	22.424	35.020	1.00	29.88

		THREE	-DIMENSION	NAL CC	ORDINA	ATES OF F	R IN COMPL	EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	осс	В	ATOM
5	3629	CD2	LEU	В	877	50.565	24.314	36.268	1.00	34.90
	3630	N	ASP	В	878	52.274	21.463	40.505	1.00	30.56
	3631	CA	ASP	В	878	51.995	20.576	41.647	1.00	32.09
10	3632	С	ASP	В	878	51.659	21.415	42.872	1.00	26.56
	3633	0	ASP	В	878	50.754	21.079	43.642	1.00	29.15
	3634	СВ	ASP	В	878	53.205	19.709	42.001	1.00	31.44
45	3635	CG	ASP	В	878	53.686	18.868	40.846	1.00	45.52
15	3636	OD1	ASP	В	878	52.913	18.024	40.344	1.00	38.49
	3637	OD2	ASP	В	878	54.851	19.050	40.441	1.00	51.89
	3638	N	ASN	В	879	52.411	22.491	43.061	1.00	26.43
20	3639	CA	ASN	В	879	52.187	23.393	44.185	1.00	33.73
	3640	C	ASN	В	879	50.798	24.042	44.128	1.00	32.92
	3641	0	ASN	В	879	50.233	24.391	45.163	1.00	33.36
05	3642	СВ	ASN	В	879	53.255	24.490	44.222	1.00	31.44
25	3643	CG	ASN	В	879	54.604	23.989	44.705	1.00	41.99
	3644	OD1	ASN	В	879	55.580	24.742	44.727	1.00	46.26
	3645	ND2	ASN	В	879	54.666	22.719	45.102	1.00	38.65
30	3646	N	LEU	В	880	50.247	24.216	42.931	1.00	32.60
	3647	CA	LEU	В	880	48.919	24.821	42.818	1.00	33.43
	3648	С	LEU	В	880	47.832	24.063	43.566	1.00	33.86
35	3649	0	LEU	В	880	46.878	24.669	44.045	1.00	32.44
	3650	СВ	LEU	В	880	48.499	24.979	41.354	1.00	37.74
	3651	CG	LEU	В	880	48.820	26.311	40.686	1.00	43.19
	3652	CD1	LEU	В	880	48.433	26.273	39.208	1.00	42.98
40	3653	CD2	LEU	В	880	48.053	27.410	41.416	1.00	43.09
	3654	. N	HIS	В	881	47.960	22.745	43.659	1.00	34.37
	3655	CA	HIS	В	881	46.971	21.944	44.377	1.00	36.86
45	3656	С	HIS	В	881	46.746	22.467	45.791	1.00	38.92
	3657	0	HIS	В	881	45.613	22.620	46.232	1.00	38.03
	3658	СВ	HIS	В	881	47.424	20.486	44.438	1.00	38.32
	3659	CG	HIS	В	881	47.321	19.770	43.129	1.00	46.94
50	3660	ND1	HIS	В	881	48.098	18.675	42.814	1.00	54.16
	3661	CD2	HIS	В	881	46.513	19.975	42.062	1.00	49.76
	3662	CE1	HIS	В	881	47.775	18.237	41.611	1.00	49.51
55	3663	NE2	HIS	В	881	46.814	19.008	41.132	1.00	56.41
	3664	N	ASP	В	882	47.839	22.741	46.491	1.00	36.82
[3665	CA	ASP	В	882	47.799	23.236	47.861	1.00	39.00

1		THREE	-DIMENSION	AL CO	ORDINA ^T	TES OF PF	R IN COMPLI	EX WITH PG		
ŀ	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	3666	C	ASP	В	882	47.144	24.616	47.950	1.00	37.23
}		0	ASP	В	882	46.325	24.876	48.833	1.00	38.12
ŀ	3667	СВ	ASP	В	882	49.229	23.324	48.397	1.00	48.17
ŀ	3668	CG	ASP	В	882	50.038	22.075	48.099	1.00	57.26
10	3669	OD1	ASP	В	882	50.294	21.799	46.900	1.00	57.71
	3670 3671	OD2	ASP	В	882	50.409	21.362	49.058	1.00	65.58
ļ		N N	LEU	В	883	47.531	25.492	47.028	1.00	32.08
15	3672	CA	LEU	В	883	47.025	26.855	46.939	1.00	29.89
	3673	C	LEU	В	883	45.527	26.833	46.637	1.00	31.31
	3674	0	LEU	В	883	44.729	27.516	47.280	1.00	27.71
	3675	СВ	LEU	В	883	47.757	27.580	45.812	1.00	36.27
20	3676 3677	CG	LEU	В	883	47.649	29.088	45.604	1.00	34.71
	3678	CD1	LEU	В	883	46.197	29.517	45.367	1.00	37.86
	3679	CD2	LEU	В	883	48.249	29.773	46.812	1.00	51.86
25	3680	N	VAL	В	884	45.154	26.047	45.639	1.00	26.92
	3681	CA	VAL	В	884	43.757	25.940	45.248	1.00	24.81
	3682	C	VAL	В	884	42.896	25.301	46.345	1.00	26.03
20	3683	0	VAL	В	884	41.712	25.600	46.473	1.00	22.11
30	3684	СВ	VAL	В	884	43.640	25.139	43.938	1.00	29.47
	3685	CG1	VAL	В	884	42.196	24.853	43.614	1.00	30.72
	3686	CG2	VAL	В	884	44.278	25.944	42.805	1.00	30.08
35	3687	N	LYS	В	885	43.484	24.418	47.142	1.00	23.85
	3688	CA	LYS	В	885	42.716	23.800	48.215	1.00	24.88
	3689	C	LYS	В	885	42.189	24.905	49.145	1.00	25.51
40	3690	0	LYS	В	885	41.038	24.844	49.607	1.00	22.01
	3691	СВ	LYS	В	885	43.593	22.819	48.985	1.00	29.10
	3692	CG	LYS	В	885	42.865	22.086	50.096	1.00	37.31
	3693	CD	LYS	В	885	43.761	21.053	50.762	1.00	31.31
45	3694	CE	LYS	В	885	43.049	20.417	51.951	1.00	38.95
	3695	NZ	LYS	В	885	43.916	19.437	52.668	1.00	41.49
	3696	N	GLN	В	886	43.015	25.921	49.403	1.00	23.54
50	3697	CA	GLN	В	886	42.602	27.039	50.275	1.00	26.86
	3698	С	GLN	В	886	41.428	27.822	49.684	1.00	29.25
	3699	0	GLN	В	886	40.528	28.228	50.418	1.00	21.92
	3700	СВ	GLN	В	886	43.764	28.010	50.531	1.00	32.12
55	3701	CG	GLN	В	886	44.939	27.408	51.301	1.00	37.80
	3702	CD	GLN	В	886	46.118	28.374	51.422	1.00	45.69

		THREE	-DIMENSION	IAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG	i	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	осс	В	ATOM
5	3703	OE1	GLN	В	886	46.041	29.400	52.103	1.00	44.67
	3704	NE2	GLN	В	886	47.212	28.051	50.743	1.00	49.75
	3705	N	LEU	В	887	41.465	28.045	48.367	1.00	24.24
10	3706	CA	LEU	В	887	40.402	28.749	47.648	1.00	19.73
	3707	С	LEU	В	887	39.127	27.894	47.648	1.00	17.60
	3708	0	LEU	В	887	38.017	28.410	47.775	1.00	21.95
	3709	СВ	LEU	В	887	40.836	29.028	46.203	1.00	24.60
15	3710	CG	LEU	В	887	42.047	29.951	46.027	1.00	25.31
	3711 1	CD1	LEU	В	887	42.369	30.108	44.543	1.00	26.29
	3712	CD2	LEU	В	887	41.757	31.290	46.641	1.00	29.73
20	3713	N	HIS	В	888	39.292	26.580	47.502	1.00	18.82
	3714	CA	HIS	В	888	38.165	25.649	47.513	1.00	18.69
	3715	C	HIS	В	888	37.422	25.669	48.845	1.00	22.15
25	3716	0	HIS	В	888	36.194	25.684	48.874	1.00	19.70
25	3717	СВ	HIS	В	888	38.654	24.228	47.247	1.00	20.05
	3718	CG	HIS	В	888	38.877	23.923	45.796	1.00	22.81
	3719	ND1	HIS	В	888	39.526	22.784	45.370	1.00	26.59
30	3720	CD2	HIS	В	888	38.459	24.559	44.674	1.00	23.24
	3721	CE1	HIS	В	888	39.495	22.726	44.050	1.00	27.50
	3722	NE2	HIS	В	888	38.854	23.791	43.603	1.00	29.04
35	3723	N	LEU	В	889	38.165	25.642	49.949	1.00	19.08
55	3724	CA	LEU	В	889	37.536	25.652	51.274	1.00	24.07
	3725	С	LEU	В	889	36.812	26.977	51.535	1.00	23.35
	3726	0	LEU	В	889	35.689	26.981	52.023	1.00	21.52
40	3727	СВ	LEU	В	889	38.592	25.387	52.372	1.00	23.61
	3728	CG	LEU	В	889	38.105	25.401	53.835	1.00	23.63
	3729	CD1	LEU	В	889	36.945	24.430	54.022	1.00	25.11
45	3730	CD2	LEU	В	889	39.256	25.027	54.760	1.00	29.21
	3731	N	TYR	В	890	37.445	28.098	51.193	1.00	21.91
	3732	CA	TYR	В	890	36.828	29.408	51.404	1.00	23.79
	3733	С	TYR	В	890	35.557	29.514	50.569	1.00	24.14
50	3734	0	TYR	В	890	34.534	30.029	51.035	1.00	23.58
	3735	СВ	TYR	В	890	37.813	30.531	51.026	1.00	25.81
	3736	CG	TYR	В	890	37.301	31.930	51.332	1.00	26.23
55	3737	CD1	TYR	В	890	36.308	32.528	50.547	1.00	23.51
	3738	CD2	TYR	В	890	37.781	32.636	52.432	1.00	29.47
	3739	CE1	TYR	В	890	35.813	33.793	50.861	1.00	26.90

TABLE 10 (continued)

		THREE	-DIMENSION	IAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	3740	CE2	TYR	В	890	37.284	33.906	52.749	1.00	29.33
	3741	CZ	TYR	В	890	36.303	34.471	51.957	1.00	27.90
	3742	ОН	TYR	В	890	35.814	35.716	52.265	1.00	28.09
10	3743	N	CYS	В	891	35.628	29.017	49.336	1.00	22.38
	3744	CA	CYS	В	891	34.491	29.045	48.438	1.00	22.23
	3745	С	CYS	В	891	33.338	28.199	48.976	1.00	19.96
	3746	0	CYS	В	891	32.212	28.669	49.064	1.00	19.08
15	3747	СВ	CYS	В	891	34.923	28.550	47.055	1.00	26.16
	3748	SG	CYS	В	891	33.587	28.353	45.863	1.00	25.55
	3749	N	LEU	В	892	33.618	26.958	49.366	1.00	20.12
20	3750	CA	LEU	В	892	32.574	26.101	49.889	1.00	19.88
	3751	С	LEU	В	892	31.936	26.685	51.159	1.00	20.91
	3752	0	LEU	В	892	30.718	26.605	51.329	1.00	20.98
	3753	СВ	LEU	В	892	33.126	24.689	50.166	1.00	22.12
25	3754	CG	LEU	В	892	32.067	23.682	50.640	1.00	28.56
	3755	CD1	LEU	В	892	30.955	23.585	49.580	1.00	23.62
	3756	CD2	LEU	В	892	32.719	22.316	50.887	1.00	24.56
30	3757	N	ASN	В	893	32.744	27.262	52.052	1.00	19.36
	3758	CA	ASN	В	893	32.199	27.855	53.275	1.00	21.31
	3759	С	ASN	В	893	31.329	29.044	52.897	1.00	23.26
25	3760	0	ASN	В	893	30.288	29.269	53.501	1.00	22.28
35	3761	СВ	ASN	В	893	33.308	28.363	54.200	1.00	22.90
	3762	CG	ASN	В	893	33.988	27.262	54.986	1.00	27.81
	3763	OD1	ASN	В	893	35.187	27.349	55.280	1.00	32.06
40	3764	ND2	ASN	В	893	33.230	26.245	55.370	1.00	26.08
	3765	N	THR	В	894	31.762	29.818	51.901	1.00	20.27
	3766	CA	THR	В	894	30.993	30.989	51.511	1.00	21.51
45	3767	С	THR	В	894	29.705	30.546	50.822	1.00	20.80
43	3768	0	THR	В	894	28.660	31.175	50.977	1.00	21.06
	3769	СВ	THR	В	894	31.818	31.925	50.593	1.00	20.63
	3770	OG1	THR	В	894	32.987	32.359	51.301	1.00	25.68
50	3771	CG2	THR	В	894	31.015	33.171	50.218	1.00	23.83
	3772	N	PHE	В	895	29.779	29.436	50.096	1.00	19.69
	3773	CA	PHE	В	895	28.614	28.901	49.381	1.00	21.30
<i>55</i>	3774	С	PHE	В	895	27.538	28.436	50.380	1.00	23.16
	3775	0	PHE	В	895	26.345	28.723	50.231	1.00	22.53
	3776	СВ	PHE	В	895	29.059	27.715	48.517	1.00	20.99

		THREE	-DIMENSION	IAL CC	ORDINA	TES OF P	R IN COMPL	EX WITH PG	i	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
5	3777	CG	PHE	В	895	27.968	27.127	47.686	1.00	24.35
	3778	CD1	PHE	В	895	27.422	27.842	46.613	1.00	25.21
	3779	CD2	PHE	В	895	27.467	25.864	47.979	1.00	27.79
10	3780	CE1	PHE	В	895	26.387	27.293	45.838	1.00	30.71
	3781	CE2	PHE	В	895	26.438	25.310	47.215	1.00	30.19
	3782	CZ	PHE	В	895	25.897	26.024	46.146	1.00	29.55
4.5	3783	N	ILE	В	896	27.972	27.703	51.390	1.00	20.73
15	3784	CA	ILE	В	896	27.066	27.205	52.412	1.00	26.62
	3785	С	ILE	В	896	26.416	28.363	53.166	1.00	24.12
	3786	0	ILE	В	896	25.234	28.309	53.499	1.00	25.34
20	3787	СВ	ILE	В	896	27.828	26.276	53.398	1.00	23.97
	3788	CG1	ILE	В	896	28.118	24.948	52.705	1.00	27.05
	3789	CG2	ILE	В	896	27.028	26.063	54.683	1.00	34.01
25	3790	CD1	ILE	В	896	28.991	24.019	53.510	1.00	34.75
23	3791	N	GLN	В	897	27.173	29.427	53.403	1.00	19.74
	3792	CA	GLN	В	897	26.645	30.573	54.145	1.00	23.53
	3793	С	GLN	В	897	26.204	31.724	53.237	1.00	25.84
30	3794	0	GLN	В	897	26.002	32.848	53.713	1.00	26.80
	3795	СВ	GLN	В	897	27.722	31.081	55.111	1.00	26.51
	3796	CG	GLN	В	897	28.384	29.972	55.924	1.00	26.00
35	3797	CD	GLN	В	897	29.571	30.449	56.734	1.00	34.46
	3798	OE1	GLN	В	897	30.451	29.655	57.089	1.00	37.93
	3799	NE2	GLN	В	897	29.601	31.741	57.051	1.00	32.90
	3800	N	SER	В	898	26.014	31.448	51.950	1.00	24.26
40	3801	CA	SER	В	898	25.669	32.504	50.996	1.00	25.93
	3802	С	SER	В	898	24.543	33.449	51.402	1.00	29.21
	3803	0	SER	В	898	24.688	34.669	51.280	1.00	27.52
45	3804	СВ	SER	В	898	25.364	31.917	49.613	1.00	23.86
.0	3805	OG	SER	В	898	24.312	30.991	49.687	1.00	31.50
	3806	N	ARG	В	899	23.433	32.904	51.896	1.00	24.74
	3807	CA	ARG	В	899	22.307	33.752	52.292	1.00	32.34
50	3808	С	ARG	В	899	22.650	34.720	53.425	1.00	29.89
	3809	0	ARG	В	899	22.342	35.910	53.355	1.00	33.92
	3810	СВ	ARG	В	899	21.103	32.902	52.733	1.00	31.79
55	3811	CG	ARG	В	899	20.414	32.070	51.652	1.00	45.87
	3812	CD	ARG	В	899	19.077	31.532	52.204	1.00	50.81
	3813	NE	ARG	В	899	18.248	30.819	51.231	1.00	61.64

TABLE 10 (continued)

		THREE	-DIMENSION	NAL CC	ORDIN	ATES OF F	PR IN COMPL	EX WITH PO)	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	3814	CZ	ARG	В	899	17.821	31.324	50.075	1.00	63.01
	3815	NH1	ARG	В	899	18.143	32.564	49.717	1.00	64.60
	3816	NH2	ARG	В	899	17.052	30.589	49.281	1.00	64.49
10	3817	N	ALA	В	900	23.268	34.190	54.474	1.00	28.54
	3818	CA	ALA	В	900	23.638	34.994	55.627	1.00	30.83
	3819	C	ALA	В	900	24.669	36.051	55.269	1.00	35.27
45	3820	0	ALA	В	900	24.622	37.159	55.793	1.00	34.40
15	3821	СВ	ALA	В	900	24.172	34.097	56.739	1.00	32.11
	3822	N	LEU	В	901	25.580	35.720	54.354	1.00	30.18
	3823	CA	LEU	В	901	26.628	36.645	53.939	1.00	32.20
20	3824	С	LEU	В	901	26.201	37.523	52.769	1.00	31.41
	3825	0	LEU	В	901	26.950	38.401	52.343	1.00	34.81
	3826	СВ	LEU	В	901	27.873	35.861	53.525	1.00	32.10
25	3827	CG	LEU	В	901	28.546	34.937	54.535	1.00	35.51
25	3828	CD1	LEU	В	901	29.567	34.057	53.797	1.00	33.35
	3829	CD2	LEU	В	901	29.207	35.746	55.635	1.00	35.37
	3830	N	SER	В	902	25.008	37.271	52.236	1.00	29.08
30	3831	CA	SER	В	902	24.509	38.027	51.102	1.00	29.16
	3832	С	SER	В	902	25.438	37.962	49.891	1.00	31.58
	3833	0	SER	В	902	25.668	38.962	49.210	1.00	30.70
35	3834	СВ	SER	В	902	24.278	39.488	51.505	1.00	35.73
-	3835	OG	SER	В	902	23.300	39.557	52.528	1.00	36.77
į	3836	N	VAL	В	903	25.991	36.779	49.641	1.00	28.81
	3837	CA	VAL	В	903	26.857	36.572	48.486	1.00	28.11
40	3838	С	VAL	В	903	26.105	35.665	47.527	1.00	30.18
	3839	0	VAL	В	903	25.799	34.521	47.851	1.00	37.08
	3840	СВ	VAL	В	903	28.183	35.891	48.870	1.00	28.45
45	3841	CG1	VAL	В	903	28.995	35.583	47.604	1.00	24.13
	3842	CG2	VAL	В	903	28.998	36.809	49.759	1.00	23.64
1	3843	N	GLU	В	904	25.805	36.172	46.343	1.00	31.59
	3844	CA	GLU	В	904	25.071	35.398	45.357	1.00	30.24
50	3845	С	GLU	В	904	25.993	34.542	44.497	1.00	33.23
	3846	0	GLU	В	904	27.037	35.010	44.044	1.00	26.56
	3847	СВ	GLU	В	904	24.266	36.343	44.458	1.00	35.02
55	3848	CG	GLU	В	904	23.432	35.672	43.382	1.00	51.21
	3849	CD	GLU	В	904	22.339	34.783	43.942	1.00	58.61
	3850	OE1	GLU	В	904	22.664	33.733	44.538	1.00	68.45

		THREE	-DIMENSION	IAL CC	ORDINA	ATES OF P	R IN COMPL	EX WITH PG	i	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	3851	OE2	GLU	В	904	21.149	35.143	43.794	1.00	71.56
	3852	N	PHE	В	905	25.614	33.280	44.303	1.00	25.33
	3853	CA	PHE	В	905	26.370	32.386	43.446	1.00	26.30
10	3854	C	PHE	В	905	25.461	32.046	42.280	1.00	25.19
	3855	0	PHE	В	905	24.367	31.507	42.482	1.00	25.92
	3856	СВ	PHE	В	905	26.742	31.073	44.142	1.00	26.58
46	3857	CG	PHE	В	905	27.856	31.188	45.123	1.00	22.37
15	3858	CD1	PHE	В	905	27.645	31.738	46.378	1.00	21.31
	3859	CD2	PHE	В	905	29.122	30.730	44.789	1.00	24.52
	3860	CE1	PHE	В	905	28.668	31.834	47.296	1.00	20.76
20	3861	CE2	PHE	В	905	30.175	30.818	45.703	1.00	23.76
	3862	CZ	PHE	В	905	29.946	31.370	46.958	1.00	25.94
	3863	N	PRO	В	906	25.893	32.367	41.049	1.00	25.13
25	3864	CA	PRO	В	906	25.175	32.120	39.800	1.00	28.59
20	3865	С	PRO	В	906	24.942	30.642	39.577	1.00	25.62
	3866	0	PRO	В	906	25.586	29.792	40.193	1.00	27.37
	3867	СВ	PRO	В	906	26.109	32.722	38.751	1.00	28.96
30	3868	CG	PRO	В	906	26.762	33.836	39.512	1.00	32.34
	3869	CD	PRO	В	906	27.148	33.074	40.753	1.00	30.32
	3870	N	GLU	В	907	24.030	30.353	38.663	1.00	29.57
35	3871	CA	GLU	В	907	23.615	28.999	38.312	1.00	30.56
	3872	С	GLU	В	907	24.705	27.965	38.011	1.00	30.16
	3873	0	GLU	В	907	24.777	26.925	38.671	1.00	28.20
	3874	СВ	GLU	В	907	22.673	29.097	37.111	1.00	39.44
40	3875	CG	GLU	В	907	21.926	27.827	36.761	1.00	50.34
	3876	CD	GLU	В	907	21.408	27.863	35.333	1.00	55.65
	3877	OE1	GLU	В	907	20.837	28.902	34.929	1.00	53.82
45	3878	OE2	GLU	В	907	21.573	26.850	34.620	1.00	56.79
	3879	N	MET	В	908	25.537	28.224	37.005	1.00	27.50
	3880	CA	MET	В	908	26.574	27.262	36.650	1.00	31.75
	3881	С	MET	В	908	27.625	27.095	37.732	1.00	28.93
50	3882	0	MET	В	908	28.143	26.002	37.931	1.00	27.45
	3883	СВ	MET	В	908	27.259	27.633	35.326	1.00	36.79
	3884	CG	MET	В	908	26.604	27.048	34.088	1.00	47.60
55	3885	SD	MET	В	908	27.569	27.345	32.563	1.00	70.60
	3886	CE	MET	В	908	29.148	26.536	32.931	1.00	48.34
	3887	N	MET	В	909	27.933	28.175	38.437	1.00	26.74

TABLE 10 (continued)

		THREE	E-DIMENSIO	NAL C	OORDIN	ATES OF	PR IN COMP	LEX WITH P	G	
_	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	АТОМ
5	3888	CA	MET	В	909	28.929	28.095	39.483	1.00	29.95
	3889	С	MET	В	909	28.379	27.233	40.620	1.00	27.02
	3890	0	MET	В	909	29.084	26.393	41.186	1.00	25.18
10	3891	СВ	MET	В	909	29.277	29.500	39.966	1.00	29.74
	3892	CG	MET	В	909	30.506	29.555	40.836	1.00	39.86
	3893	SD	MET	В	909	31.104	31.254	40.979	1.00	43.66
15	3894	CE	MET	В	909	32.567	30.954	41.943	1.00	40.49
15	3895	N	SER	В	910	27.109	27.429	40.954	1.00	27.09
	3896	CA	SER	В	910	26.511	26.632	42.015	1.00	25.16
	3897	С	SER	В	910	26.487	25.178	41.595	1.00	25.86
20	3898	0	SER	В	910	26.669	24.286	42.416	1.00	23.23
	3899	СВ	SER	В	910	25.091	27.106	42.305	1.00	24.90
	3900	OG	SER	В	910	25.101	28.461	42.699	1.00	26.02
25	3901	N	GLU	В	911	26.255	24.935	40.308	1.00	25.46
23	3902	CA	GLU	В	911	26.215	23.567	39.809	1.00	29.55
	3903	С	GLU	В	911	27.564	22.863	39.976	1.00	29.76
	3904	0	GLU	В	911	27.620	21.769	40.536	1.00	28.96
30	3905	CB	GLU	В	911	25.808	23.531	38.330	1.00	34.77
	3906	CG	GLU	В	911	25.935	22.134	37.708	1.00	51.59
	3907	CD	GLU	В	911	25.725	22.110	36.199	1.00	56.41
35	3908	OE1	GLU	В	911	26.448	22.834	35.476	1.00	67.40
ļ	3909	OE2	GLU	В	911	24.845	21.355	35.734	1.00	66.05
	3910	N	VAL	В	912	28.644	23.474	39.494	1.00	25.36
	3911 1	CA	VAL	В	912	29.959	22.850	39.619	1.00	29.35
40	3912	С	VAL	В	912	30.381	22.701	41.075	1.00	26.61
	3913	0	VAL	В	912	31.067	21.740	41.429	1.00	29.13
	3914	СВ	VAL	В	912	31.097	23.635	38.865	1.00	29.04
45	3915	CG1	VAL	В	912	30.780	23.735	37.383	1.00	29.38
ļ	3916	CG2	VAL	В	912	31.285	25.015	39.470	1.00	27.40
Ĺ	3917	N	ILE	В	913	29.972	23.642	41.919	1.00	26.12
	3918	CA	ILE	В	913	30.325	23.589	43.328	1.00	26.31
50	3919	С	ILE	В	913	29.612	22.421	44.012	1.00	27.59
	3920	0	ILE	В	913	30.220	21.644	44.760	1.00	24.84
	3921	СВ	ILE	В	913	29.979	24.931	44.024	1.00	28.04
55	3922	CG1	ILE	В	913	30.936	26.019	43.514	1.00	22.84
	3923	CG2	ILE	В	913	30.048	24.773	45.559	1.00	25.12
	3924	CD1	ILE	В	913	30.622	27.421	43.977	1.00	19.77

		THREE	-DIMENSION	IAL CC	ORDINA	ATES OF P	R IN COMPL	EX WITH PG	i	
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	3925	N	ALA	В	914	28.327	22.272	43.725	1.00	29.75
	3926	CA	ALA	В	914	27.547	21.194	44.323	1.00	26.87
	3927	С.	ALA	В	914	27.931	19.836	43.770	1.00	29.99
10	3928	0	ALA	В	914	27.840	18.824	44.464	1.00	28.80
	3929	СВ	ALA	В	914	26.047	21.440	44.098	1.00	28.77
	3930	N	ALA	В	915	28.372	19.794	42.521	1.00	27.03
	3931	CA	ALA	В	915	28.718	18.514	41.917	1.00	27.59
15	3932	С	ALA	В	915	30.015	17.884	42.383	1.00	28.38
	3933	, O	ALA	В	915	30.111	16.664	42.427	1.00	34.38
	3934	СВ	ALA	В	915	28.733	18.633	40.389	1.00	24.76
20	3935	N	GLN	В	916	31.007	18.689	42.735	1.00	25.09
	3936	CA	GLN	В	916	32.291	18.118	43.124	1.00	26.91
	3937	O	GLN	В	916	33.073	18.705	44.293	1.00	25.33
25	3938	0	GLN	В	916	33.931	18.022	44.863	1.00	29.86
25	3939	СВ	GLN	В	916	33.226	18.133	41.909	1.00	23.65
	3940	CG	GLN	В	916	32.752	17.337	40.694	1.00	30.20
	3941	CD	GLN	В	916	32.436	15.889	41.034	1.00	30.77
30	3942	OE1	GLN	В	916	33.180	15.235	41.756	1.00	36.33
	3943	NE2	GLN	В	916	31.331	15.383	40.503	1.00	45.24
	3944	N	LEU	В	917	32.810	19.951	44.665	1.00	27.46
35	3945	CA	LEU	В	917	33.629	20.558	45.700	1.00	23.85
<i>55</i>	3946	С	LEU	В	917	33.803	19.765	46.998	1.00	26.12
	3947	0	LEU	В	917	34.930	19.611	47.484	1.00	23.20
	3948	СВ	LEU	В	917	33.148	21.987	45.970	1.00	32.48
40	3949	CG	LEU	В	917	34.234	22.886	46.551	1.00	27.86
	3950	CD1	LEU	В	917	35.492	22.792	45.701	1.00	32.98
	3951	CD2	LEU	В	917	33.750	24.346	46.572	1.00	37.82
45	3952	N	PRO	В	918	32.711	19.247	47.585	1.00	21.61
	3953	CA	PRO	В	918	32.919	18.490	48.822	1.00	26.49
	3954	С	PRO	В	918	33.838	17.292	48.586	1.00	24.53
	3955	0	PRO	В	918	34.769	17.037	49.354	1.00	24.08
50	3956	СВ	PRO	В	918	31.498	18.053	49.194	1.00	25.82
	3957	CG	PRO	В	918	30.659	19.178	48.629	1.00	27.24
	3958	CD	PRO	В	918	31.276	19.281	47.251	1.00	24.22
55	3959	N	LYS	В	919	33.567	16.567	47.509	1.00	23.53
	3960	CA	LYS	В	919	34.339	15.381	47.159	1.00	26.07
	3961	С	LYS	В	919	35.811	15.729	46.938	1.00	23.29

		THREE	-DIMENSION	AL CO	ORDINA	TES OF P	R IN COMPLE	X WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	3962	0	LYS	В	919	36.712	14.988	47.352	1.00	24.01
	3963	СВ	LYS	В	919	33.756	14.738	45.898	1.00	29.21
	3964	CG	LYS	В	919	34.393	13.393	45.544	1.00	35.47
10	3965	CD	LYS	В	919	33.972	12.944	44.145	1.00	43.92
	3966	CE	LYS	В	919	32.471	12.899	43.995	1.00	47.04
	3967	NZ	LYS	В	919	32.081	12.653	42.573	1.00	55.56
	3968	N	ILE	В	920	36.058	16.857	46.281	1.00	21.17
15	3969	CA	ILE	В	920	37.423	17.312	46.022	1.00	24.61
	3970	С	ILE	В	920	38.167	17.663	47.320	1.00	26.60
	3971	0	ILE	В	920	39.315	17.264	47.506	1.00	30.19
20	3972	СВ	ILE	В	920	37.430	18.561	45.091	1.00	22.46
	3973	CG1	ILE	В	920	37.000	18.162	43.681	1.00	26.76
	3974	CG2	ILE	В	920	38.824	19.186	45.042	1.00	28.46
	3975	CD1	ILE	В	920	36.707	19.354	42.795	1.00	29.32
25	3976	N	LEU	В	921	37.515	18.396	48.214	1.00	26.87
	3977	CA	LEU	В	921	38.147	18.790	49.473	1.00	31.04
	3978	С	LEU	В	921	38.414	17.603	50.375	1.00	30.07
30	3979	0	LEU	В	921	39.377	17.604	51.141	1.00	33.85
	3980	СВ	LEU	В	921	37.273	19.809	50.223	1.00	28.75
	3981	CG	LEU	В	921	37.402	21.287	49.868	1.00	31.61
	3982	CD1	LEU	В	921	36.346	22.078	50.621	1.00	31.82
35	3983	CD2	LEU	В	921	38.809	21.784	50.244	1.00	28.69
	3984	N	ALA	В	922	37.570	16.579	50.280	1.00	28.13
	3985	CA	ALA	В	922	37.735	15.389	51.108	1.00	28.58
40	3986	С	ALA	В	922	38.824	14.481	50.571	1.00	30.58
	3987	0	ALA	В	922	39.070	13.418	51.125	1.00	32.70
	3988	СВ	ALA	В	922	36.433	14.626	51.185	1.00	28.32
	3989	N	GLY	В	923	39.450	14.896	49.477	1.00	28.46
45	3990	CA	GLY	В	923	40.503	14.101	48.863	1.00	30.11
	3991	С	GLY	В	923	39.990	12.843	48.197	1.00	29.47
	3992	0	GLY	В	923	40.736	11.881	48.014	1.00	33.11
50	3993	N	MET	В	924	38.719	12.827	47.825	1.00	27.25
	3994	CA	MET	В	924	38.156	11.635	47.202	1.00	28.82
	3995	С	MET	В	924	38.222	11.681	45.680	1.00	30.78
55	3996	0	MET	В	924	37.290	11.270	44.993	1.00	27.46
55	3997	СВ	MET	В	924	36.720	11.416	47.688	1.00	30.45
	3998	CG	MET	В	924	36.664	11.091	49.176	1.00	35.29

	THREE-DIMENSIONAL COORDINATES OF PR IN COMPLEX WITH PG									
	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	3999	SD	MET	В	924	37.558	9.556	49.557	1.00	43.72
	4000	CE	MET	В	924	37.438	9.477	51.374	1.00	47.71
	4001	N	VAL	В	925	39.358	12.173	45.186	1.00	29.26
10	4002	CA	VAL	В	925	39.670	12.280	43.763	1.00	28.51
	4003	С	VAL	В	925	41.164	11.985	43.652	1.00	30.21
	4004	0	VAL	В	925	41.843	11.802	44.661	1.00	29.32
45	4005	СВ	VAL	В	925	39.407	13.709	43.208	1.00	23.55
15	4006	CG1	VAL	В	925	37.928	14.070	43.363	1.00	29.41
	4007	CG2	VAL	В	925	40.300	14.720	43.912	1.00	27.96
	4008	N	LYS	В	926	41.687	11.946	42.437	1.00	29.24
20	4009	CA	LYS	В	926	43.102	11.665	42.270	1.00	31.24
	4010	С	LYS	В	926	43.886	12.774	41.590	1.00	31.61
	4011	0	LYS	В	926	43.894	12.902	40.364	1.00	27.27
25	4012	СВ	LYS	В	926	43.296	10.350	41.514	1.00	33.46
23	4013	CG	LYS	В	926	44.744	10.011	41.236	1.00	39.59
	4014	CD	LYS	В	926	44.880	8.556	40.803	1.00	46.42
	4015	CE	LYS	В	926	43.990	8.236	39.618	1.00	52.50
30	4016	NZ	LYS	В	926	44.036	6.792	39.270	1.00	54.88
	4017	N	PRO	В	927	44.523	13.628	42.394	1.00	30.89
	4018	CA	PRO	В	927	45.314	14.714	41.836	1.00	31.60
35	4019	С	PRÖ	В	927	46.506	14.074	41.149	1.00	36.21
	4020	0	PRO	В	927	47.058	13.088	41.639	1.00	32.44
	4021	СВ	PRO	В	927	45,704	15.511	43.078	1.00	38.96
	4022	CG	PRO	В	927	45.811	14.413	44.131	1.00	38.64
40	4023	CD	PRO	В	927	44.507	13.713	43.864	1.00	33.53
	4024	N	LEU	В	928	46.886	14.609	40.000	1.00	33.51
	4025	CA	LEU	В	928	48.022	14.056	39.280	1.00	36.50
45	4026	С	LEU	В	928	49.230	14.937	39.545	1.00	38.84
	4027	0	LEU	В	928	49.217	16.135	39.276	1.00	41.78
	4028	СВ	LEU	В	928	47.716	13.980	37.786	1.00	29.72
	4029	CG	LEU	В	928	46.444	13.187	37.476	1.00	29.00
50	4030	CD1	LEU	В	928	46.220	13.130	35.965	1.00	29.19
	4031	CD2	LEU	В	928	46.554	11.788	38.059	1.00	32.16
	4032	N	LEU	В	929	50.270	14.334	40.101	1.00	35.29
55	4033	CA	LEU	В	929	51.479	15.070	40.416	1.00	34.92
ĺ	4034	С	LEU	В	929	52.582	14.697	39.446	1.00	32.09
	4035	0	LEU	В	929	52.660	13.562	38.979	1.00	31.61

TABLE 10 (continued)

1	TABLE 10 (continued) THREE-DIMENSIONAL COORDINATES OF PR IN COMPLEX WITH PG										
	17014	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM	
5	ATOM		LEU	В	929	51.921	14.753	41.848	1.00	37.92	
	4036	СВ	LEU	В	929	51.014	15.258	42.970	1.00	40.28	
	4037	CG CD1	LEU	В	929	51.465	14.689	44.295	1.00	44.21	
	4038	CD1	LEU	В	929	51.055	16.782	42.992	1.00	46.14	
10	4039	CD2	PHE	В	930	53.425	15.666	39.134	1.00	33.50	
	4040		PHE	В	930	54.534	15.426	38.235	1.00	37.57	
	4041	CA	PHE	В	930	55.723	14.904	39.021	1.00	38.45	
15	4042		PHE	В	930	56.527	14.133	38.499	1.00	37.59	
	4043	O	PHE	В	930	54.929	16.710	37.515	1.00	36.92	
	4044	CB	PHE	В	930	53.861	17.252	36.624	1.00	36.88	
	4045	CG CD1	PHE	В	930	52.880	18.103	37.123	1.00	34.19	
20	4046	CD1	PHE	В	930	53.817	16.887	35.281	1.00	41.45	
	4047	CE1	PHE	В	930	51.869	18.587	36.286	1.00	44.09	
	4048	CE1	PHE	В	930	52.810	17.364	34.440	1.00	42.91	
25	4049	CZ	PHE	В	930	51.838	18.213	34.943	1.00	39.56	
	4050	N N	HIS	В	931	55.803	15.311	40.285	1.00	36.07	
	4051	CA	HIS	В	931	56.903	14.917	41.149	1.00	41.47	
	4052	C	HIS	В	931	56.445	14.260	42.446	1.00	41.27	
30	4053	0	HIS	В	931	55.401	14.697	42.972	1.00	45.00	
	4055	СВ	HIS	В	931	57.750	16.151	41.448	1.00	40.17	
	4056	CG	HIS	В	931	58.212	16.864	40.215	1.00	48.97	
35	4057	ND1	HIS	В	931	58.951	16.244	39.230	1.00	44.03	
	4058	CD2	HIS	В	931	58.025	18.140	39.798	1.00	47.89	
	4059	CE1	HIS	В	931	59.199	17.106	38.260	1.00	49.04	
40	4060	NE2	HIS	В	931	58.650	18.264	38.581	1.00	50.90	
40	4061		HIS	В	931	 					
	4062	C1	STR	В	2	36.722	34.750	39.821	1.00	23.01	
	4063	C2	STR	В	2	37.383	34.885	38.411	1.00	30.18	
45	4064	C3	STR	В	2	38.878	35.052	38.581	1.00	29.08	
	4065	03	STR	В	2	39.501	35.761	37.778	1.00	35.44	
	4066	C4	STR	В	2	39.577	34.319	39.647	1.00	26.40	
50	4067	C5	STR	В	2	38.911	33.608	40.559	1.00	25.48	
	4068	C6	STR	В	2	39.700	32.787	41.592	1.00	26.28	
	4069	C7	STR	В	2	39.171	32.980	43.035	1.00	22.37	
	4070	C8	STR	В	2	37.627	32.810	43.155	1.00	23.98	
55	4071	C9	STR	В	2	36.932	33.817	42.168	1.00	20.64	
	4072	C10	STR	В	2	37.329	33.590	40.661	1.00	20.19	

	THREE-DIMENSIONAL COORDINATES OF PR IN COMPLEX WITH PG									
	ATOM	ATOM TYPE	RESIDUE	#	X	Y	Z	occ	В	ATOM
5	4073	C11	STR	В	2	35.390	33.811	42.356	1.00	21.87
	4074	C12	STR	В	2	34.970	34.064	43.833	1.00	22.64
	4075	C13	STR	В	2	35.601	33.021	44.767	1.00	22.97
10	4076	C14	STR	В	2	37.164	33.157	44.578	1.00	24.84
	4077	C15	STR	В	2	37.755	32.350	45.755	1.00	27.19
	4078	C16	STR	В	2	36.767	32.674	46.938	1.00	28.64
45	4079	C17	STR	В	2	35.529	33.364	46.288	1.00	24.63
15	4080	C18	STR	В	2	35.053	31.558	44.475	1.00	18.18
	4081	C19	STR	В	2	36.852	32.203	40.113	1.00	24.00
	4082	C20	STR	В	2	34.178	33.098	46.985	1.00	26.21
20	4083	020	STR	В	2	34.028	32.147	47.721	1.00	30.43
	4084	C21	STR	В	2	33.060	34.033	46.751	1.00	25.53
	4085	0	нон		1000	33.666	17.404	87.251	1.00	22.19
25	4086	0	НОН		1001	27.991	7.945	79.484	1.00	25.72
23	4087	0	нон		1002	16.741	15.065	72.689	1.00	29.58
	4088	0	нон		1003	36.823	15.614	69.042	1.00	23.68
	4089	0	нон		1004	23.313	7.474	68.146	1.00	21.10
30	4090	0	нон		1005	45.633	27.074	27.131	1.00	31.65
	4091	0	НОН		1006	37.862	19.992	22.137	1.00	22.34
	4092	0	нон		1007	30.655	16.369	46.065	1.00	32.92
35	4093	0	нон		1008	27.171	36.648	41.698	1.00	25.15
	4094	0	нон		1009	44.296	28.506	25.056	1.00	24.87
	4095	0	нон		1010	17.917	6.774	69.155	1.00	22.62
	4096	0	нон		1011	37.660	29.818	22.972	1.00	27.17
40	4097	0	нон		1012	37.688	23.686	40.855	1.00	27.87
	4098	0	нон		1013	38.419	38.595	33.456	1.00	25.90
	4099	0	нон		1014	30.427	9.090	51.398	1.00	29.15
45	4100	0	нон		1015	58.710	17.046	23.597	1.00	27.03
-	4101	0	нон		1016	33.659	21.949	41.759	1.00	25.64
	4102	0	нон		1017	32.808	13.290	64.116	1.00	28.14
[4103	0	НОН		1018	10.078	12.182	57.163	1.00	32.35
50	4104	0	нон		1019	42.113	19.486	38.248	1.00	34.91
	4105	0	нон		1020	41.094	18.002	36.209	1.00	26.81
	4106	0	нон		1021	30.979	15.363	63.422	1.00	28.79
55	4107	0	нон		1022	36.936	29.095	20.508	1.00	35.94
	4108	0	нон		1023	40.497	23.491	40.659	1.00	23.11
	4109	0	нон		1024	33.929	24.678	57.710	1.00	38.13

	TABLE 10 (continued) THREE-DIMENSIONAL COORDINATES OF PR IN COMPLEX WITH PG											
				#	X	Y	Z	occ	В	ATOM		
5	ATOM	ATOM TYPE	RESIDUE	#	1025	40.676	33.721	35.327	1.00	27.89		
J	4110	0	НОН		1025	40.680	28.650	53.024	1.00	33.04		
	4111	0	HOH		1020	36.369	13.680	67.537	1.00	39.82		
	4112	0	HOH		1027	34.722	-5.251	80.392	1.00	32.81		
10	4113	0	HOH		1028	39.676	-3.503	86.330	1.00	36.01		
	4114	0	НОН		 	27.842	22.939	85.773	1.00	44.76		
	4115	0	HOH		1030	62.824	21.691	26.549	1.00	33.63		
15	4116	0	НОН		 	16.427	-9.397	69.013	1.00	54.60		
,,,	4117	0	НОН	ļ	1032	36.222	14.728	63.426	1.00	51.82		
	4118	0	HOH	 	1033		21.247	45.108	1.00	29.39		
	4119	0	НОН	 -	1034	43.556	28.480	29.854	1.00	39.90		
20	4120	0	НОН	ļ	1035	41.341	48.214	48.363	1.00	30.49		
	4121	0	нон	↓	1036	51.585	4.551	72.387	1.00	36.18		
	4122	0	НОН	-	1037	22.687	29.600	26.109	1.00	35.27		
25	4123	0	НОН	ļ	1038	59.098		26.274	1.00	42.35		
20	4124	0	нон	 	1039	55.684	35.659	82.280	1.00	21.99		
	4125	0	НОН	-	1040	31.061	18.050	31.570	1.00	42.40		
	4126	0	нон	<u> </u>	1041	43.993	34.999	61.026	1.00	33.69		
30	4127	0	нон	ļ	1042	12.626	17.393	63.170	1.00	51.66		
	4128	0	нон		1043	42.167	23.707	+	1.00	44.64		
	4129	0	нон		1044	30.801	12.191	46.877	1.00	35.43		
0E	4130	0	НОН		1045	48.081	49.753	47.195	1.00	32.27		
35	4131	0	НОН		1046	30.363	26.610	56.223	1.00	33.51		
	4132	0	НОН		1047	37.038	10.030	42.705		42.96		
	4133	0	НОН		1048	23.093	13.225	81.215	1.00	36.45		
40	4134	0	НОН		1049	33.482	20.462	20.296	1.00	45.30		
	4135	0	НОН		1050	14.055	13.721	72.306	1.00	63.86		
	4136	0	нон		1051	28.811	43.105	52.857	1.00	36.00		
45	4137	0	нон		1052	47.646		52.909	1.00			
45	4138	0	нон		1053	49.719		22.669	1.00	44.77		
	4139	0	нон		1054			60.207	1.00	48.26		
	4140	0	нон		1055	27.182		49.610	1.00	52.31		
50	4141	0	нон		1056			30.217	1.00	46.28		
	4142	0	НОН		1057		+	35.039	1.00	51.40		
	4143	0	нон		1058			59.385	1.00	33.36		
	4144	0	нон		1059	46.460		40.532	1.00	34.71		
55	4145	0	нон		1060	49.051		44.651	1.00			
	4146	0	нон		1061	45.167	51.194	41.329	1.00	46.31		

	THREE-DIMENSIONAL COORDINATES OF PR IN COMPLEX WITH PG									
_	ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM
5	4147	0	нон		1062	29.592	-4.047	56.348	1.00	37.89
	4148	0	нон		1063	32.458	36.767	54.252	1.00	63.27
	4149	0	нон		1064	30.664	20.362	27.986	1.00	53.78
10	4150	0	нон		1065	37.433	-13.669	66.706	1.00	65.87
	4151	0	НОН		1066	36.201	30.984	24.993	1.00	38.56
	4152	0	нон		1067	46.351	13.151	75.804	1.00	55.39
15	4153	0	нон		1068	33.456	12.303	40.428	1.00	58.95
15	4154	0	нон		1069	28.321	22.637	27.122	1.00	47.82
	4155	0	НОН		1070	40.552	14.140	55.956	1.00	53.39
	4156	0	НОН		1071	26.098	12.641	88.207	1.00	61.83
20	4157	0	нон		1072	48.503	17.493	34.436	1.00	48.80
	4158	0	нон		1073	42.177	48.877	43.220	1.00	27.83
	4159	0	НОН		1074	38.062	47.031	49.044	1.00	44.21
25	4160	0	нон		1075	14.659	30.053	47.390	1.00	50.38
23	4161	0	нон		1076	23.348	29.500	45.003	1.00	31.93
	4162	0	нон		1077	17.005	32.707	54.248	1.00	54.07
	4163	0	нон		1078	13.257	10.576	47.601	1.00	41.84
30	4164	0	нон		1079	30.618	-5.578	58.841	1.00	41.51
	4165	0	нон		1080	36.612	5.182	88.679	1.00	30.35
i	4166	0	нон	E	1081	35.761	31.204	55.444	1.00	49.87
35	4167	0	нон		1082	32.381	16.046	22.635	1.00	37.44
<i></i>	4168	0	НОН		1083	43.620	28.101	82.401	1.00	54.55
	4169	0	нон		1084	8.058	8.892	73.013	1.00	55.15
	4170	0	нон		1085	35.421	-7.443	88.230	1.00	49.25
40	4171	0	нон		1086	27.342	7.972	45.641	1.00	50.17
	4172	0	нон		1087	30.122	26.584	24.720	1.00	34.71
	4173	0	нон		1088	26.449	11.806	48.387	1.00	51.75
45	4174	0	НОН		1089	16.902	21.688	55.310	1.00	35.02
	4175	0	НОН		1090	39.032	18.772	82.856	1.00	38.44
	4176	0	нон		1091	33.889	-4.827	60.832	1.00	48.06
	4177	0	НОН		1092	52.975	40.371	51.817	1.00	61.64
50	4178	0	НОН		1093	27.906	51.315	40.663	1.00	46.27
	4179	0	НОН		1094	42.167	18.770	42.670	1.00	58.14
	4180	0	нон		1095	23.080	39.080	43.811	1.00	64.06
55	4181	0	нон		1096	34.247	25.343	19.682	1.00	42.03
	4182	0	нон		1097	40.472	41.737	55.433	1.00	44.89
ĺ	4183	0	НОН		1098	56.942	34.297	20.120	1.00	58.67

TABLE 10 (continued)

ſ		THREE	-DIMENSION			ES OF PF		X WITH PG		
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	occ	В	ATOM
,	4184	0	НОН		1099	66.188	19.205	40.041	1.00	58.84
	4185	0	НОН		1100	36.630	11.860	62.910	1.00	37.72
	4186	0	НОН		1101	26.825	18.353	46.932	1.00	40.45
	ļ	0	нон		1102	22.250	32.330	37.131	1.00	53.43
0	4187	0	нон		1103	57.886	40.754	42.618	1.00	42.31
	4188	0	нон		1104	46.731	16.884	21.013	1.00	59.18
	4189	0	НОН		1105	25.096	10.702	74.366	1.00	49.26
5	4190	0	НОН		1106	41.831	26.244	69.694	1.00	50.01
	4191	0	нон		1107	24.979	14.834	86.465	1.00	58.25
	4192	0	нон	 	1108	42.044	-18.293	88.405	1.00	53.84
	4193	0	нон		1109	60.868	31.903	29.340	1.00	56.15
20	4194	0	НОН	+	1110	47.828	8.529	78.005	1.00	57.38
	4195	0	нон	 	1111	30.517	10.898	25.227	1.00	43.12
	4196		НОН	-	1112	26.673	45.793	49.522	1.00	42.53
25	4197	0	НОН	+	1113	40.395	7.287	85.552	1.00	34.61
	4198	0	нон	-	1114	36.002	50.942	48.176	1.00	55.29
	4199	0	нон	+	1115	15.517	1.041	72.791	1.00	32.07
	4200	0	нон		1116	24.858	15.134	26.431	1.00	49.39
30	4201	0	НОН	+-	1117	31.562	34.334	28.869	1.00	36.46
	4202	 	НОН	+	1118	35.859	-12.062	72.482	1.00	54.03
	4203	0	HOH	-	1119	57.184	43.582	38.922	1.00	42.30
35	4204	- 0	нон		1120	20.561	-8.563	70.577	1.00	60.48
	4205		НОН	+	1121	39.714	-9.373	72.709	1.00	42.35
	4206	0	нон	+-	1122	- 	21.194	77.543	1.00	55.53
	4207	0	НОН		1123	1	15.926	35.036	1.00	49.36
40	4208	0	НОН		1124		9.364	71.434	1.00	41.52
	4209	0	нон	+-	1125			62.284	1.00	32.0
	4210	0	НОН	+-	1126		+	67.233	1.00	46.3
45	4211	+	НОН	+-	1127			62.566	1.00	41.4
	4212		НОН		1128	+	 	52.664	1.00	42.3
	4213		нон	\dashv	1129		15.298	75.306	1.00	38.4
50	4214		НОН		1130			72.132	1.00	36.3
50	4215		НОН	+-	1131			26.998	1.00	37.7
	4216		НОН		1132	+		69.689	1.00	49.5
	4217		НОН		1133			46.519	1.00	37.3
55	4218		НОН		1134			63.591	1.00	49.0
	4219		НОН		113			63.648	1.00	31.4
	4220	0	HON							

	THREE-DIMENSIONAL COORDINATES OF PR IN COMPLEX WITH PG									
	ATOM	ATOM TYPE	RESIDUE	#	Х	Υ	Z	осс	В	ATOM
5	4221	0	НОН		1136	7.627	13.172	67.948	1.00	47.51
	4222	0	НОН		1137	30.244	21.919	32.671	1.00	51.61
	4223	0	нон		1138	23.072	31.139	55.222	1.00	40.35
10	4224	0	нон		1139	18.856	13.261	76.752	1.00	51.54
	4225	0	нон		1140	14.629	17.453	71.521	1.00	44.61
	4226	0	НОН		1141	30.127	7.542	77.644	1.00	39.23
4-	4227	0	НОН		1142	29.410	10.319	49.169	1.00	47.59
15	4228	0	нон		1143	52.667	17.385	21.488	1.00	33.48
	4229	0	нон		1144	24.791	30.379	57.499	1.00	50.29
	4230	. 0	нон		1145	33.515	32.303	54.663	1.00	60.00
20	4231	0	нон		1146	43.670	11.568	23.068	1.00	42.60
	4232	0	нон		1147	22.577	-0.615	76.831	1.00	51.25
	4233	0	нон		1148	32.288	40.493	29.506	1.00	44.45
25	4234	0	нон		1149	38.587	13.656	83.878	1.00	50.82
23	4235	0	нон		1150	49.160	49.467	49.792	1.00	43.40
	4236	0	нон		1151	36.423	9.754	65.069	1.00	50.09
	4237	0	нон		1152	41.806	7.306	67.548	1.00	31.99
30	4238	0	нон		1153	20.865	5.502	75.530	1.00	53.88
	4239	0	нон		1154	26.670	47.493	47.589	1.00	51.95
!	4240	0	НОН		1155	58.759	25.881	41.102	1.00	51.36
35	4241	0	нон		1156	22.627	35.482	48.933	1.00	49.41
	4242	0	нон		1157	29.902	41.245	33.231	1.00	47.09
	4243	0	нон		1158	42.020	38.368	56.303	1.00	54.13
	4244	0	нон		1159	42.067	18.958	48.188	1.00	41.24
40	4245	0	нон		1160	50.498	28.461	49.894	1.00	58.63
	4246	0	нон		1161	19.503	21.644	46.170	1.00	47.41
	4247	0	нон		1162	23.864	30.453	31.232	1.00	50.37
45	4248	0	нон		1163	33.055	31.002	70.386	1.00	45.87
	4249	0	нон		1164	69.219	22.617	25.319	1.00	54.13
	4250	0	нон		1165	26.984	34.792	32.747	1.00	50.24
	4251	0	нон		1166	18.904	22.434	40.238	1.00	55.76
50	4252	0	нон		1167	38.572	18.970	85.692	1.00	51.19
	4253	0	нон		1168	55.921	7.586	67.043	1.00	56.10
	4254	0	нон		1169	60.815	24.101	20.645	1.00	43.40
55	4255	0	нон		1170	36.032	13.461	58.415	1.00	36.46
	4256	0	нон		1171	42.102	18.389	50.609	1.00	50.87
	4257	0	нон		1172	61.353	15.073	41.877	1.00	55.08

TABLE 10 (continued)

	THREE	-DIMENSION	IAL CO	ORDINA	ATES OF P	R IN COMPI	LEX WITH PO	3 			
ATOM	ATOM TYPE	RESIDUE	#	Х	Y	Z	occ	В	ATOM		
4258	0	нон		1173	34.024	3.531	28.705	1.00	52.74		
4259	0	НОН		1174	41.542	7.988	49.104	1.00	55.00		
4260	0	НОН		1175	24.756	2.570	77.011	1.00	53.63		
4261	0	нон		1176	41.140	5.822	60.200	1.00	39.74		
4262	0	НОН		1177	9.209	2.894	61.066	1.00	48.67		
4263	0	НОН		1178	37.046	11.589	60.375	1.00	40.88		
4264	0	нон		1179	35.350	29.505	79.245	1.00	38.37		

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TABLE 11

			IABLE 11			
THREE-DIME	NSIONAL COOR	DINATES OF M	R OBTAINED FR DINATES OF GRO	OM HOMOLOG x IN COMPLEX	Y MODELING OF WITH FP	THE CRYSTA
ATOM	ATOM TYPE	RESIDUE	RESIDUE #	X	Y	Z
1	СВ	THR	729	-19.756	38.320	19.110
2	С	THR	729	-18.114	38.275	17.211
3	0	THR	729	-16.947	37.873	17.214
4	N	THR	729	-18.598	36.174	18.360
5	CA	THR	729	-19.213	37.506	17.945
6	OG1	THR	729	-20.818	37.625	19.751
7	CG2	THR	729	-20.352	39.701	18.762
8	N	ILE	730	-18.503	39.394	16.608
9	CA	ILE	730	-17.623	40.222	15.789
10	СВ	ILE	730	-18.297	41.571	15.469
11	С	ILE	730	-16.196	40.504	16.195
12	0	ILE	730	-15.740	40.220	17.294
13	CG2	ILE	730	-17.440	42.465	14.521
14	CG1	ILE	730	-19.731	41.454	14.861
15	CD1	ILE	730	-20.557	42.757	14.828
16	N	SER	731	-15.505	41.060	15.220
17	CA	SER	731	-14.134	41.446	15.326
18	СВ	SER	731	-13.299	40.445	16.166
19	С	SER	731	-13.634	41.573	13.874
20	0	SER	731	-14.280	41.111 I	12.934
21	OG	SER	731	-13.117	39.185	15.512
22	N	ARG	732	-12.466	42.196	13.695
23	CA	ARG	732	-11.890	42.630	14.953
24	СВ	ARG	732	-10.516	43.184	14.585
25	С	ARG	732	-12.607	43.506	15.952

	THREE-DIME	ENSIONAL COOF		IR OBTAINED FR			THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	26	0	ARG	732	-13.827	43.743	15.969
	27	CG	ARG	732	-10.508	44.628	14.011
10	28	CD	ARG	732	-9.081	45.148	13.769
10	29	NE	ARG	732	-9.137	46.534	13.219
	30	CZ	ARG	732	-8.082	47.277	12.899
	31	NH1	ARG	732	-8.288	48.469	12.437
15	32	NH2	ARG	732	-6.849	46.871	13.023
	33	N	ALA	733	-11.742	43.858	16.871
	34	CA	ALA	733	-12.003	44.602	18.044
20	35	СВ	ALA	733	-10.933	45.657	18.148
	36	С	ALA	733	-13.363	45.135	18.293
	37	0	ALA	733	-13.652	46.285	18.018
	38	N	LEU	734	-14.245	44.261	18.739
25	39	CA	LEU	734	-15.501	44.789	19.161
	40	СВ	LEU	734	-16.704	44.008	18.666
	41	CG	LEU	734	-17.555	45.126	18.047
30	42	CD1	LEU	734	-18.950	44.631	17.803
	43	CD2	LEU	734	-17.589	46.355	18.973
	44	С	LEU	734	-15.240	44.562	20.626
	45	0	LEU	734	-16.127	44.626	21.465
35	46	N	THR	735	-13.962	44.302	20.897
	47	CA	THR	735	-13.428	44.048	22.224
	48	СВ	THR	735	-13.995	42.763	22.803
40	49	OG1	THR	735	-14.494	41.807	21.860
	50	CG2	THR	735	-15.075	43.091	23.820
	51	С	THR	735	-11.918	43.943	22.076
	52	0	THR	735	-11.364	42.855	21.905
45	53	N	PRO	736	-11.241	45.088	22.203
	54	CD	PRO	736	-11.886	45.982	23.170
	55	CA	PRO	736	-9.820	45.423	22.111
50	56	СВ	PRO	736	-9.750	46.869	22.596
	57	CG	PRO	736	-11.131	47.234	22.999
	58	С	PRO	736	-8.819	44.559	22.827
	59	0	PRO	736	-9.060	44.008	23.899
55	60	N	SER	737	-7.645	44.523	22.226
	61	CA	SER	737	-6.573	43.708	22.713

TABLE 11 (continued)

	THREE-DIME	ENSIONAL COOP	DINATES OF M	R OBTAINED FR	OM HOMOLOGY	MODELING OF WITH FP	THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	62	СВ	SER	737	-6.182	42.760	21.638
	63	С	SER	737	-5.375	44.525	23.067
	64	0	SER	737	-5.269	45.692	22.693
10	65	OG	SER	737	-7.176	41.760	21.389
	66	N	PRO	738	-4.443	43.914	23.765
	67	CA	PRO	738	-3.306	44.709	24.076
15	68	СВ	PRO	738	-2.291	43.940	24.906
	69	С	PRO	738	-2.684	45.293	22.811
	70	0	PRO	738	-2.438	46.498	22.731
	71	CG	PRO	738	-2.473	42.521	24.341
20	72	CD	PRO	738	-3.991	42.390	24.175
	73	N	VAL	739	-2.500	44.447	21.804
	74	CA	VAL	739	-1.889	44.833	20.541
25	75	СВ	VAL	739	-1.508	43.576	19.786
	76	CG1	VAL	739	-2.772	42.871	19.326
	77	CG2	VAL	739	-0.607	43.918	18.640
30	78	С	VAL	739	-2.741	45.703	19.604
30	79	0	VAL	739	-2.250	46.235	18.608
	80	N	MET	740	-4.019	45.833	19.923
	81	CA	MET	740	-4.941	46.603	19.100
<i>3</i> 5	82	СВ	MET	740	-6.349	46.084	19.336
	83	С	MET	740	-4.875	48.043	19.513
	84	0	MET	740	-4.947	48.972	18.706
40	85	CG	MET	740	-6.600	44.615	18.934
	86	SD	MET	740	-8.364	44.257	19.004
	87	CE	MET	740	-8.277	42.465	18.887
	88	N	VAL	741	-4.766	48.181	20.818
45	89	CA	VAL	741	-4.694	49.442	21.487
	90	СВ	VAL	741	-4.802	49.170	22.971
	91	С	VAL	741	-3.357	50.057	21.149
50	92	0	VAL	741	-3.223	51.269	20.958
	93	CG1	VAL	741	-6.167	48.580	23.404
	94	CG2	VAL	741	-4.562	50.382	23.914
	95	N	LEU	742	-2.362	49.190	21.059
<i>55</i>	96	CA	LEU	742	-1.019	49.623	20.753
	97	СВ	LEU	742	-0.084	48.427	20.896

TABLE 11 (continued)

	THREE-DIME	ENSIONAL COOF		R OBTAINED FR			THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	98	CG	LEU	742	1.010	48.630	21.951
	99	CD1	LEU	742	0.433	49.160	23.240
40	100	CD2	LEU	742	1.711	47.316	22.185
10	101	С	LEU	742	-0.929	50.237	19.357
	102	0	LEU	742	-0.092	51.104	19.094
	103	N	GLU	743	-1.833	49.795	18.487
15	104	CA	GLU	743	-1.904	50.219	17.097
	105	СВ	GLU	743	-2.756	49.212	16.320
	106	CG	GLU	743	-2.136	48.796	15.007
20	107	CD	GLU	743	-2.570	47.415	14.514
	108	OE1	GLU	743	-2.934	46.529	15.329
	109	OE2	GLU	743	-2.513	47.214	13.284
	110	С	GLU	743	-2.452	51.624	16.871
25	111	0	GLU	743	-1.996	52.337	15.977
	112	N	ASN	744	-3.423	52.016	17.680
	113	CA	ASN	744	-4.044	53.316	17.530
30	114	СВ	ASN	744	-5.471	53.284	18.055
	115	С	ASN	744	-3.287	54.388	18.276
	116	0	ASN	744	-3.311	55.556	17.890
	117	CG	ASN	744	-6.417	52.253	17.431
35	118	OD1	ASN	744	-6.684	51.196	17.983
	119	ND2	ASN	744	-6.937	52.503	16.259
	120	N	ILE	745	-2.614	54.006	19.356
40	121	CA	ILE	745	-1.896	55.023	20.098
	122	СВ	ILE	745	-1.765	54.673	21.610
	123	CG2	ILE	745	-3.046	54.028	22.106
	124	CG1	ILE	745	-0.582	53.744	21.859
45	125	CD1	ILE	745	-0.178	53.699	23.317
	126	С	ILE	745	-0.524	55.320	19.509
	127	0	ILE	745	0.161	56.226	19.973
50	128	N	GLU	746	-0.132	54.573	18.479
	129	CA	GLU	746	1.167	54.785	17.826
	130	СВ	GLU	746	1.409	53.704	16.753
	131	CG	GLU	746	2.741	53.793	15.984
55	132	CD	GLU	746	3.990	53.653	16.855
	133	OE1	GLU	746	4.303	52.528	17.298

TABLE 11 (continued)

	THREE-DIMEN	SIONAL COOR	DINATES OF ME CTURE COORD	R OBTAINED FRO INATES OF GRO	OM HOMOLOGY IN COMPLEX W	TH FP	
	ATOM	ATOM TYPE	RESIDUE	RESIDUE#	Х	Y	Z
-	134	OE2	GLU	746	4.670	54.674	17.093
	135	С	GLU	746	1.160	56.185	17.203
ŀ	136	0	GLU	746	0.281	56.514	16.399
0	137	N	PRO	747	2.114	57.042	17.597
	138	CD	PRO	747	3.001	57.025	18.773
	139	CA	PRO	747	2.080	58.369	16.985
5	140	СВ	PRO	747	3.240	59.122	17.655
,	141	CG	PRO	747	4.002	58.090	18.432
	142	C	PRO	747	2.211	58.315	15.484
	143	0	PRO	747	2.743	57.347	14.931
20	143	N	GLU	748	1.691	59.331	14.813
		CA	GLU	748	1.833	59.328	13.380
	145	CB	GLU	748	0.511	59.651	12.673
25	146	CG	GLU	748	-0.106	61.009	12.712
25	147	CD	GLU	748	-1.176	61.042	11.636
	148	OE1	GLU	748	-2.016	60.110	11.627
	149	OE2	GLU	748	-1.169	61.956	10.785
30	150	C	GLU	748	3.010	60.222	13.010
	151	0	GLU	748	3.380	61.117	13.764
	152	N	ILE	749	3.618	59.939	11.860
05	153		ILE	749	4.850	60.602	11.416
35	154	CA	ILE	749	5.212	59.980	10.004
	155	СВ	ILE	749	5.059	62.115	11.226
	156	C	ILE	749	4.357	62.768	10.453
40	157	0	ILE	749	5.462	58.447	10.077
	158	CG2	ILE	749	4.309	60.289	8.765
	159	CG1	ILE	749	2.804	59.971	8.865
15	160	CD1	VAL	750	6.091	62.639	11.893
45	161	N OA	VAL	750	6.453	64.069	11.856
	162	CA		750	6.926	64.489	13.295
	163	СВ	VAL	750	7.513	64.559	10.849
50	164	C	VAL	750	8.707	64.280	11.013
	165	0	VAL	750	5.820	64.279	14.360
	166	CG1	VAL	750	7.395	65.961	13.399
	167	CG2	VAL		7.070	65.321	9.841
55	168	N	TYR	751	7.956	65.903	8.814
	169	CA	TYR	751	7.950	_1	

	THREE-DIMI	ENSIONAL COOF STRU		R OBTAINED FF DINATES OF GR			THE CRYSTA
	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
Ī	170	СВ	TYR	751	7.131	66.540	7.688
Ì	171	CG	TYR	751	6.395	65.498	6.878
ſ	172	CD1	TYR	751	5.170	64.989	7.305
Ī	173	CE1	TYR	751	4.564	63.915	6.641
İ	174	CD2	TYR	751	6.988	64.921	5.756
Ī	175	CE2	TYR	751	6.399	63.851	5.089
Ī	176	CZ	TYR	751	5.187	63.350	5.537
Ī	177	ОН	TYR	751	4.593	62.295	4.880
Ī	178	С	TYR	751	8.851	66.939	9.489
Ī	179	0	TYR	751	8.486	67.464	10.534
Ī	180	N ·	ALA	752	9.999	67.259	8.893
Ī	181	CA	ALA	752	10.931	68.180	9.550
ľ	182	СВ	ALA	752	12.356	67.636	9.405
ľ	183	С	ALA	752	10.942	69.673	9.246
ſ	184	0	ALA	752	11.638	70.420	9.935
Ī	185	N	GLY	753	10.195	70.128	8.246
	186	CA	GLY	753	10.213	71.550	7.933
ſ	187	С	GLY	753	11.621	71.989	7.557
	188	0	GLY	753	12.086	73.063	7.941
	189	N	TYR	754	12.309	71.142	6.812
ſ	190	CA	TYR	754	13.662	71.437	6.386
ſ	191	СВ	TYR	754	14.402	70.140	6.103
	192	CG	TYR	754	15.874	70.279	5.811
	193	CD1	TYR	754	16.792	70.476	6.840
	194	CE1	TYR	754	18.162	70.466	6.595
	195	CD2	TYR	754	16.362	70.099	4.518
	196	CE2	TYR	754	17.724	70.090	4.263
	197	CZ	TYR	754	18.618	70.268	5.309
	198	ОН	TYR	754	19.972	70.240	5.048
	199	С	TYR	754	13.557	72.238	5.112
	200	0	TYR	754	12.560	72.161	4.396
	201	N	ASP	755	14.576	73.024	4.822
	202	CA	ASP	755	14.548	73.803	3.609
	203	СВ	ASP	755	14.825	75.267	3.915
	204	CG	ASP	755	14.947	76.086	2.669
ſ	205	OD1	ASP	755	14.292	75.709	1.677

TABLE 11 (continued)

	THREE-DIMEN	SIONAL COOR STRU	DINATES OF ME TURE COORD	INATES OF GRO	IN COMPLEX W	MODELING OF T	
-	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	X	Y	Z
}	206	OD2	ASP	755	15.684	77.091	2.677
H	207	С	ASP	755	15.600	73.242	2.673
-	208	0	ASP	755	16.777	73.546	2.795
,	209	N	SER	756	15.179	72.412	1.730
ŀ	210	CA	SER	756	16.139	71.822	0.812
-	211	СВ	SER	756	15.731	70.385	0.440
5	212	OG	SER	756	14.414	70.273	-0.094
٠	213	C	SER	756	16.338	72.672	-0.423
ŀ	214	0	SER	756	17.007	72.262	-1.373
		N	SER	757	15.754	73.858	-0.427
20	215 216	CA	SER	757	15.981	74.718	-1.564
	216	CB	SER	757	14.974	75.867	-1.613
	217	OG	SER	757	14.787	76.751	-0.529
25		C	SER	757	17.416	75.229	-1.427
23	219	0	SER	757	17.984	75.718	-2.385
	220	 	LYS	758	18.018	75.104	-0.245
	221	CA	LYS	758	19.410	75.542	-0.084
30	222	СВ	LYS	758	19.569	76.631	1.022
	223	C	LYS	758	20.317	74.345	0.233
		0	LYS	758	19.879	73.368	0.846
35	225	CG	LYS	758	21.018	77.164	1.158
55	226	CD	LYS	758	21.225	78.187	2.279
	227	CE	LYS	758	22.709	78.571	2.345
	228	NZ NZ	LYS	758	22.886	79.678	3.301
40	229	N N	PRO	759	21.605	74.418	-0.156
	230	CD	PRO	759	22.272	75.497	-0.900
	231	CA	PRO	759	22.533	73.305	0.094
45	232	CB	PRO	759	23.747	73.665	-0.752
	233	CG	PRO	759	23.733	75.132	-0.765
	234	C	PRO	759	22.917	72.865	1.503
	235	0	PRO	759	23.305	73.661	2.360
50	236	N N	ASP	760	22.822	71.551	1.685
	237		ASP	760	23.121	70.877	2.939
	238	CA	ASP	760	23.112	69.349	2.763
55	239	CB	ASP	760	21.888	68.816	2.030
55	240	CG OD1	ASP	760	20.960	69.573	1.668

	THREE-DIME	ENSIONAL COOF		IR OBTAINED FR			THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	242	OD2	ASP	760	21.879	67.589	1.818
	243	С	ASP	760	24.480	71.222	3.533
40	244	0	ASP	760	25.312	71.900	2.930
10	245	N	THR	761	24.689	70.695	4.731
	246	CA	THR	761	25.915	70.844	5.482
	247	СВ	THR	761	26.423	72.285	5.820
15	248	С	THR	761	25.635	70.009	6.710
	249	0	THR	761	24.476	69.815	7.079
	250	OG1	THR	761	27.630	72.232	6.576
20	251	CG2	THR	761	25.418	73.203	6.527
20	252	N	ALA	762	26.684	69.510	7.336
	253	CA	ALA	762	26.498	68.676	8.506
	254	СВ	ALA	762	27.840	68.117	9.005
25	255	С	ALA	762	25.771	69.331	9.673
	256	0	ALA	762	24.899	68.692	10.267
	257	N	GLU	763	26.115	70.581	10.011
30	258	CA	GLU	763	25.476	71.272	11.144
	259	СВ	GLU	763	26.194	72.592	11.546
	260	С	GLU	763	24.007	71.553	10.871
	261	0	GLU	763	23.157	71.402	11.744
35	262	CG	GLU	763	26.307	73.719	10.479
	263	CD	GLU	763	25.265	74.895	10.561
	264	OE1	GLU	763	24.497	74.906	11.528
40	265	OE2	GLU	763	25.344	75.705	9.631
	266	N	ASN	764	23.716	71.939	9.645
	267	CA	ASN	764	22.360	72.239	9.245
	268	СВ	ASN	764	22.372	72.902	7.845
45	269	С	ASN	764	21.486	71.002	9.189
	270	0	ASN	764	20.262	71.061	9.294
	271	CG	ASN	764	20.995	73.387	7.376
50	272	OD1	ASN	764	20.215	73.953	8.123
	273	ND2	ASN	764	20.735	73.180	6.002
	274	N	LEU	765	22.127	69.872	8.974
	275	CA	LEU	765	21.391	68.644	8.848
55	276	СВ	LEU	765	22.223	67.683	7.963
	277	С	LEU	765	21.024	68.015	10.158

ATOM	ATOM TYPE	RESIDUE	RESIDUE #	X	Y	Z
278	0	LEU	765	20.024	67.298	10.275
279	CG	LEU	765	21.499	66.430	7.442
280	CD1	LEU	765	20.143	66.766	6.772
281	CD2	LEU	765	22.437	65.683	6.467
282	N	LEU	766	21.877	68.222	11.136
283	CA	LEU	766	21.567	67.619	12.386
284	СВ	LEU	766	22.728	66.737	12.939
285	С	LEU	766	21.005	68.605	13.352
286	0	LEU	766	20.877	68.318	14.530
287	CG	LEU	766	23.913	67.344	13.722
288	CD1	LEU	766	25.193	66.496	13.527
289		LEU	766	24.184	68.811	13.399
290		SER	767	20.684	69.800	12.908
291	CA	SER	767	20.024	70.574	13.906
292	СВ	SER	767	20.276	72.095	13.791
293		SER	767	18.550	70.269	13.691
294		SER	767	17.829	69.980	14.640
295		SER	767	19.523	72.823	14.751
296	N	THR	768	18.110	70.288	12.437
297	CA	THR	768	16.720	70.012	12.116
298	СВ	THR	768	16.570	69.964	10.593
299	OG1	THR	768	17.092	71.157	9.999
300	CG2	THR	768	15.112	69.830	10.188
301	С	THR	768	16.319	68.674	12.738
302	. 0	THR	768	15.155	68.460	13.145
303	B N	LEU	769	17.315	67.800	12.839
304	CA	LEU	769	17.137	66.464	13.346
305	св св	LEU	769	18.395	65.722	12.955
306	CG	LEU	769	18.165	64.572	11.949
307	CD1	LEU	769	17.010	64.884	10.998
308	CD2	LEU	769	19.424	64.310	11.136
309) С	LEU	769	16.906	66.514	14.85
310	0	LEU	769	16.098	65.774	15.45
311	1 N	ASN	770	17.642	67.402	15.48
31:	2 CA	ASN	770	17.460	67.562	16.88

	THREE-DIMI	ENSIONAL COOF		IR OBTAINED FR			THE CRYSTA
	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	314	CG	ASN	770	19.775	67.729	17.672
Ì	315	OD1	ASN	770	20.089	66.732	17.016
Ì	316	ND2	ASN	770	20.607	68.445	18.542
ı	317	С	ASN	770	16.073	68.135	17.052
ļ	318	0	ASN	770	15.238	67.569	17.732
	319	N	ARG	771	15.825	69.267	16.420
Ì	320	CA	ARG	771	14.516	69.874	16.457
İ	321	СВ	ARG	771	14.469	70.956	15.411
ľ	322	CG	ARG	771	15.421	72.167	15.625
Ì	323	С	ARG	771	13.456	68.815	16.170
Ì	324	0	ARG	771	12.379	68.841	16.763
	325	CD	ARG	771	15.508	73.114	14.406
	326	NE	ARG	771	14.248	73.390	13.674
	327	CZ	ARG	771	14.132	73.721	12.336
Ì	328	NH1	ARG	771	12.884	73.956	11.815
Ī	329	NH2	ARG	771	15.225	73.819	11.507
	330	N	LEU	772	13.735	67.891	15.253
	331	CA	LEU	772	12.746	66.848	15.013
	332	СВ	LEU	772	13.098	65.965	13.804
	333	CG	LEU	772	11.863	65.253	13.219
Ī	334	CD1	LEU	772	12.216	63.962	12.506
Ī	335	CD2	LEU	772	10.921	64.937	14.353
	336	С	LEU	772	12.792	66.025	16.305
	337	0	LEU	772	11.797	65.443	16.737
ſ	338	N	ALA	773	13.968	66.008	16.927
	339	CA	ALA	773	14.160	65.294	18.178
	340	С	ALA	773	13.152	65.700	19.236
ſ	341	0	ALA	773	12.378	64.862	19.695
	342	СВ	ALA	773	15.616	65.518	18.624
	343	N	GLY	774	13.146	66.976	19.621
	344	CA	GLY	.774	12.204	67.432	20.625
	345	С	GLY	774	10.763	67.024	20.350
ſ	346	0	GLY	774	10.122	66.392	21.188
	347	N	LYS	775	10.248	67.369	19.178
	348	CA	LYS	775	8.868	67.045	18.855
	349	СВ	LYS	775	8.525	67.530	17.445

TABLE 11 (continued)

				INATES OF GRa		Y	Z
	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	X		17.353
	350	CG	LYS	775	8.419	69.054	16,016
	351	CD	LYS	775	7.791	69.503	19.005
	352	С	LYS	775	8.539	65.569	
	353	0	LYS	775	7.517	65.206	19.591
	354	CE	LYS	775	7.787	71.028	15.818
	355	NZ	LYS	775	7.242	71.426	14.456
	356	N	GLN	776	9.412	64.719	18.477
	357	CA	GLN	776	9.214	63.279	18.555
	358	СВ	GLN	776	10.318	62.566	17.788
	359	CG	GLN	776	9.887	61.973	16.466
)	360	CD	GLN	776	11.078	61.625	15.631
	361	OE1	GLN	776	10.948	61.242	14.472
	362	NE2	GLN	776	12.331	61.695	16.275
5	363	С	GLN	776	9.218	62.800	19.996
	364	0	GLN	776	8.373	61.998	20.393
	365	N	MET	777	10.182	63.283	20.770
	366	CA	MET	777	10.298	62.919	22.176
0	367	СВ	MET	777	11.478	63.747	22.759
	368	С	MET	777	9.015	63.253	22.923
	369	0	MET	777	8.505	62.443	23.702
35	370	CG	MET	777	11.739	63.416	24.216
	371	SD	MET	777	11.922	61.626	24.254
	372	CE	MET	777	11.174	61.295	25.852
	373	H N	ILE	778	8.508	64.461	22.687
40	374	CA	ILE	778	7.271	64.908	23.318
	375	СВ	ILE	778	6.941	66.366	22.911
	375	CG2	ILE	778	5.432	66.624	22.997
45	377	CG1	ILE	778	7.725	67.325	23.820
	378	CD1	ILE	778	8.335	68.525	23.116
	378	C	ILE	778	6.161	63.965	22.902
	380	0	ILE	778	5.392	63.509	23.735
50		N	GLN	779	6.088	63.655	21.621
	381	CA	GLN	779	5.070	62.736	21.133
	382	CB	GLN	779	5.125	62.293	19.652
55	383	C	GLN	779	5.123	61.425	21.925
	384	0	GLN	779	4.083	60.818	22.219

	THREE-DIME	NSIONAL COOP			OM HOMOLOGY x IN COMPLEX V		THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Υ	Z
	386	CG	GLN	779	4.732	63.341	18.595
	387	CD	GLN	779	4.569	62.623	17.248
10	388	OE1	GLN	779	5.502	62.033	16.728
10	389	NE2	GLN	779	3.274	62.678	16.676
	390	N	VAL	780	6.345	61.004	22.264
	391	CA	VAL	780	6.590	59.764	23.003
15	392	СВ	VAL	780	8.113	59.380	23.122
	393	С	VAL	780	5.932	59.780	24.373
	394	0	VAL	780	5.427	58.760	24.842
20	395	CG1	VAL	780	8.564	58.449	21.970
	396	CG2	VAL	780	8.538	58.770	24.479
	397	N	VAL	781	5.951	60.945	25.014
	398	CA	VAL	781	5.346	61.101	26.324
25	399	СВ	VAL	781	5.625	62.498	26.891
	400	CG1	VAL	781	5.016	62.620	28.253
	401	CG2	VAL	781	7.111	62.740	26.963
30	402	С	VAL	781	3.825	60.855	26.267
	403	0	VAL	781	3.306	60.031	27.019
	404	N	LYS	782	3.118	61.548	25.370
	405	CA	LYS	782	1.659	61.390	25.231
35	406	СВ	LYS	782	1.118	62.386	24.204
	407	CG	LYS	782	-0.352	62.165	23.801
	408	CD	LYS	782	-0.801	63.198	22.762
40	409	CE	LYS	782	-0.465	64.627	23.229
	410	NZ	LYS	782	-0.605	65.690	22.152
	411	С	LYS	782	1.274	59.973	24.800
	412	0	LYS	782	0.106	59.571	24.861
45	413	N	TRP	783	2.281	59.238	24.351
	414	CA	TRP	783	2.152	57.862	23.881
	415	СВ	TRP	783	3.212	57.595	22.816
50	416	CG	TRP	783	3.470	56.155	22.564
	417	CD2	TRP	783	4.588	55.392	23.026
	418	CE2	TRP	783	4.399	54.069	22.586
ĺ	419	CE3	TRP	783	5.723	55.696	23.794
55	420	CD1	TRP	783	2.677	55.293	21.869
	421	NE1	TRP	783	3.228	54.039	21.875

TABLE 11 (continued)

		STRU	CTURE COORD	INATES OF GRO	IN COMPLEX V		
	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	X	Y	Z
	422	CZ2	TRP	783	5.317	53.047	22.855
	423	CZ3	TRP	783	6.634	54.679	24.067
	424	CH2	TRP	783	6.421	53.370	23.606
	425	С	TRP	783	2.377	56.910	25.039
	426	0	TRP	783	1.644	55.939	25.215
	427	N	ALA	784	3.430	57.186	25.804
	428	CA	ALA	784	3.785	56.365	26.948
	429	СВ	ALA	784	4.985	56.962	27.673
	430	С	ALA	784	2.593	56.305	27.881
	431	0	ALA	784	2.217	55.241	28.357
)	432	N	LYS	785	1.992	57.466	28.114
	433	CA	LYS	785	0.847	57.573	28.992
	434	СВ	LYS	785	0.509	59.053	29.222
5	435	CG	LYS	785	1.737	59.940	29.510
	436	CD	LYS	785	1.413	61.389	29.990
	437	CE	LYS	785	0.003	61.884	29.609
	438	NZ	LYS	785	-0.348	63.263	30.145
10	439	С	LYS	785	-0.381	56.817	28.479
	440	0	LYS	785	-1.349	56.670	29.211
	441	N	VAL	786	-0.367	56.328	27.242
35	442	CA	VAL	786	-1.532	55.592	26.746
	443	СВ	VAL	786	-1.855	55.995	25.312
	444	c	VAL	786	-1.323	54.085	26.826
	445	0	VAL	786	-2.267	53.307	26.643
40	446	CG1	VAL	786	-2.296	57.471	25.159
	447	CG2	VAL	786	-2.951	55.162	24.592
	448	N	LEU	787	-0.079	53.681	27.083
45	449	CA	LEU	787	0.257	52.268	27.214
	450	СВ	LEU	787	1.775	52.044	27.401
	451	C	LEU	787	-0.470	51.832	28.467
	452	0	LEU	787	-0.109	52.208	29.587
50	453	CG	LEU	787	2.734	52.584	26.306
	454	CD1	LEU	787	4.178	52.168	26.617
	455	CD2	LEU	787	2.350	52.109	24.895
55	456	N	PRO	788	-1.543	51.063	28.293
	457	CD	PRO	788	-2.126	50.571	27.034

	THREE-DIME	ENSIONAL COOF		R OBTAINED FR			THE CRYSTA
	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	х	Y	Z
	458	CA	PRO	788	-2.287	50.611	29.461
	459	СВ	PRO	788	-3.126	49.444	28.917
	460	CG	PRO	788	-2.658	49.248	27.445
	461	С	PRO	788	-1.346	50.207	30.603
	462	0	PRO	788	-0.498	49.331	30.431
	463	N	GLY	789	-1.469	50.871	31.751
	464	CA	GLY	789	-0.628	50.533	32.889
	465	С	GLY	789	0.592	51.398	33.148
	466	0	GLY	789	1.087	51.477	34.273
	467	N	PHE	790	1.106	52.057	32.125
	468	CA	PHE	790	2.271	52.877	32.357
	469	СВ	PHE	790	2.789	53.462	31.052
	470	CG	PHE	790	3.949	54.379	31.239
	471	CD1	PHE	790	5.220	53.870	31.479
	472	CD2	PHE	790	3.768	55.750	31.196
	473	CE1	PHE	790	6.300	54.717	31.695
	474	CE2	PHE	790	4.840	56.612	31.410
	475	CZ	PHE	790	6.112	56.096	31.653
	476	С	PHE	790	1.972	54.015	33.328
	477	0	PHE	790	2.849	54.414	34.108
ĺ	478	N	LYS	791	0.752	54.548	33.304
ı	479	CA	LYS	791	0.510	55.667	34.201
	480	СВ	LYS	791	-0.334	56.759	33.530
	481	CG	LYS	791	-1.744	56.478	33.055
	482	CD	LYS	791	-2.230	57.816	32.484
ĺ	483	С	LYS	791	0.026	55.391	35.608
	484	0	LYS	791	-0.404	56.302	36.312
	485	CE	LYS	791	-3.638	57.635	31.901
	486	NZ	LYS	791	-4.178	58.949	31.508
	487	N	ASN	792	0.120	54.141	36.027
	488	CA	ASN	792	-0.240	53.788	37.383
	489	СВ	ASN	792	-1.030	52.487	37.415
ĺ	490	CG	ASN	792	-2.422	52.652	36.853
	491	OD1	ASN	792	-3.101	51.672	36.552
	492	ND2	ASN	792	-2.974	53.949	36.710
Ì	493	С	ASN	792	1.095	53.627	38.071

TABLE 11 (continued)

	THREE-DIME	NSIONAL COOR	DINATES OF ME	R OBTAINED FRO	OM HOMOLOGY IN COMPLEX V	MODELING OF	THE CRYSTAL
	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	494	0	ASN	792	1.180	53.287	39.244
	495	N	LEU	793	2.153	53.875	37.312
	496	CA	LEU	793	3.485	53.780	37.860
)	497	СВ	LEU	793	4.519	53.587	36.745
	498	CG	LEU	793	4.503	52.206	36.089
	499	CD1	LEU	793	5.496	52.158	34.949
5	500	CD2	LEU	793	4.844	51.160	37.133
	501	С	LEU	793	3.743	55.069	38.610
	502	0	LEU	793	3.089	56.089	38.368
	503	N	PRO	794	4.688	55.017	39.536
0	504	CA	PRO	794	5.007	56.194	40.313
	505	СВ	PRO	794	6.158	55.901	41.257
	506	C	PRO	794	5.387	57.333	39.374
25	507	0	PRO	794	6.407	57.247	38.695
	508	CG	PRO	794	6.975	54.906	40.416
	509	CD	PRO	794	5.907	54.014	39.774
	510	N	LEU	795	4.575	58.390	39.335
30	511	CA	LEU	795	4.854	59.521	38.455
	512	СВ	LEU	795	4.144	60.790	38.942
	513	CG	LEU	795	4.450	62.072	38.145
35	514	CD1	LEU	795	3.440	63.137	38.497
	515	CD2	LEU	795	5.857	62.592	38.441
	516	C	LEU	795	6.348	59.801	38.317
	517	1 0	LEU	795	6.769	60.390	37.324
40	518	N	GLU	796	7.144	59.401	39.303
	519	CA	GLU	796	8.594	59.611	39.238
	520	СВ	GLU	796	9.257	59.516	40.604
45	521	- c	GLU	796	9.251	58.572	38.367
	522	0	GLU	796	10.315	58.816	37.809
	523	CG	GLU	796	10.791	59.813	40.678
	524	CD	GLU	796	11.462	59.829	42.054
50	525	OE1	GLU	796	10.836	59.739	43.101
	526	OE2	GLU	796	12.818	59.952	42.001
	527	N	ASP	797	8.635	57.391	38.316
55	528	CA	ASP	797	9.107	56.271	37.501
	529	СВ	ASP	797	8.383	54.968	37.863

	THREE-DIMI	ENSIONAL COOF STRU		IR OBTAINED FR DINATES OF GR			THE CRYS
	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
r	530	CG	ASP	797	8.665	54.507	39.275
Ī	531	OD1	ASP	797	9.833	54.606	39.707
r	532	OD2	ASP	797	7.718	54.035	39.945
r	533	С	ASP	797	8.751	56.630	36.074
r	534	0	ASP	797	9.563	56.517	35.157
	535	N	GLN	798	7.505	57.058	35.905
r	536	CA	GLN	798	7.024	57.464	34.610
r	537	СВ	GLN	798	5.731	58.245	34.769
	538	CG	GLN	798	4.565	57.314	34.706
	539	CD	GLN	798	3.234	57.989	34.856
	540	OE1	GLN	798	2.991	59.060	34.288
ſ	541	NE2	GLN	798	2.451	57.562	35.945
Γ	542	С	. GLN	798	8.087	58.294	33.928
Γ	543	0	GLN	798	8.230	58.244	32.704
	544	N	ILE	799	8.859	59.014	34.744
Ī	545	CA	ILE	799	9.945	59.891	34.300
Г	546	СВ	ILE	799	10.055	61.119	35.215
Γ	547	С	ILE	799	11.341	59.269	34.219
	548	0	ILE	799	12.199	59.805	33.514
	549	CG2	ILE	799	11.139	62.134	34.736
	550	CG1	ILE	799	8.718	61.899	35.423
Γ	551	CD1	ILE	799	8.711	62.930	36.571
	552	N	THR	800	11.614	58.187	34.943
Г	553	CA	THR .	800	12.959	57.615	34.862
	554	СВ	THR	800	13.318	56.724	36.081
	555	OG1	THR	800	12.556	56.983	37.258
Γ	556	CG2	THR	800	14.781	56.946	36.483
Г	557	С	THR	800	13.011	56.767	33.604
	558	0	THR	800	14.017	56.733	32.883
Γ	559	N	LEU	801	11.899	56.083	33.354
	560	CA	LEU	801	11.769	55.242	32.183
	561	СВ	LEU	801	10.417	54.506	32.226
	562	CG	LEU	801	10.393	53.076	32.791
	563	CD1	LEU	801	11.605	52.841	33.658
Г	564	CD2	LEU	801	9.110	52.836	33.568
Γ	565	С	LEU	801	11.914	56.102	30.918

TABLE 11 (continued)

L	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	X	Υ	Z
H		0	LEU	801	12.701	55.763	30.037
L	566	N	ILE	802	11.208	57.228	30.833
Ļ	567	CA	ILE	802	11.323	58.067	29.641
L	568		ILE	802	10.281	59.172	29.675
L	569	CB	ILE	802	12.703	58.668	29.396
L	570	С	ILE	802	13.146	58.779	28.251
F	571	0		802	10.291	60.052	28.387
L	572	CG2	ILE	802	8.817	58.681	29.916
L	573	CG1	ILE		7.790	59.774	30.275
L	574	CD1	ILE	802	13.385	59.047	30.473
L	575	N	GLN	803		59.645	30.380
L	576	CA	GLN	803	14.713	60.371	31.662
L	577	СВ	GLN	803	15.049	61.560	31.931
L	578	CG	GLN	803	14.189	62.099	33.320
	579 —	CD	GLN	803	14.417	 	33.631
L	580	OE1	GLN	803	14.007	63.217	
	581	NE2	GLN	803	15.012	61.291	34.324
	582	С	GLN	803	15.778	58.609	30.157
	583	0	GLN	803	16.896	58.911	29.733
	584	N	TYR	804	15.455	57.378	30.473
	585	CA	TYR	804	16.440	56.352	30.278
	586	СВ	TYR	804	16.211	55.236	31.272
	587	CG	TYR	804	16.847	55.463	32.612
	588	CD1	TYR	804	17.000	56.745	33.149
	589	CE1	TYR	804	17.576	56.924	34.403
ſ	590	CD2	TYR	804	17.279	54.382	33.352
	591	CE2	TYR	804	17.842	54.543	34.590
	592	CZ	TYR	804	17.993	55.802	35.112
	593	ОН	TYR	804	18.526	55.969	36.371
Ī	594	С	TYR	804	16.322	55.808	28.878
Ī	595	0	TYR	804	17.320	55.564	28.207
ľ	596	N	SER	805	15.085	55.671	28.427
İ	597	CA	SER	805	14.819	55.079	27.130
ļ	598	СВ	SER	805	13.733	54.018	27.296
	599	OG	SER	805	12.460	54.582	27.593
ļ	600	С	SER	805	14.439	55.972	25.956
ı	601	0	SER	805	14.044	55.457	24.912

	THREE-DIMI	ENSIONAL COOF		IR OBTAINED FR	OM HOMOLOG		THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	602	N	TRP	806	14.563	57.284	26.086
	603	CA	TRP	806	14.169	58.124	24.968
10	604	СВ	TRP	806	14.217	59.619	25.378
10	605	CG	TRP	806	15.580	60.225	25.512
	606	CD2	TRP	806	16.283	60.932	24.488
	607	CE2	TRP	806	17.566	61.242	24.996
15	608	CE3	TRP	806	15.941	61.369	23.202
	609	CD1	TRP	806	16.442	60.117	26.570
	610	NE1	TRP	806	17.644	60.720	26.265
20	611 1	CZ2	TRP	806	18.530	61.913	24.243
	612	CZ3	TRP	806	16.888	62.037	22.454
	613	CH2	TRP	806	18.166	62.320	22.983
	614	С	TRP	806	14.938	57.847	23.648
25	615	0	TRP	806	14.360	57.934	22.560
	616	N	MET	807	16.213	57.477	23.720
	617	CA	MET	807	16.948	57.218	22.482
30	618	СВ	MET	807	18.447	57.385	22.706
	619	CG	MET	807	19.273	57.315	21.430
	620	SD	MET	807	19.210	58.799	20.405
	621	CE	MET	807	20.498	59.740	21.131
35	622	С	MET	807	16.648	55.813	21.956
	623	0	MET	807	16.531	55.594	20.746
	624	N	CYS	808	16.532	54.861	22.870
40	625	CA	CYS	808	16.219	53.498	22.483
	626	СВ	CYS	808	15.888	52.536	23.651
	627	С	CYS	808	14.977	53.612	21.599
	628	0	CYS	808	14.928	53.066	20.498
45	629	SG	CYS	808	16.909	52.717	25.155
	630	N	LEU	809	13.995	54.372	22.084
	631	CA	LEU	809	12.724	54.608	21.393
50	632	СВ	LEU	809	11.788	55.409	22.288
	633	CG	LEU	809	11.389	54.821	23.629
i	634	CD1	LEU	809	10.765	55.921	24.466
	635	CD2	LEU	809	10.440	53.655	23.429
55	636	С	LEU	809	12.844	55.364	20.070
	637	0	LEU	809	12.258	54.966	19.068

	THREE-DIMEN	NSIONAL COOR	DINATES OF MI	R OBTAINED FR		MODELING OF	THE CRYSTAL
	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	X	Υ	Z
	638	N	SER	810	13.564	56.481	20.102
	639	CA	SER	810	13.757	57.322	18.930
	640	СВ	SER	810	14.560	58.614	19.213
0	641	C	SER	810	14.486	56.544	17.826
	642	0	SER	810	14.054	56.542	16.672
	643	OG	SER	810	13.900	59.523	20.087
5	644	N	SER	811	15.570	55.852	18.181
	645	CA	SER	811	16.311	55.075	17.189
	646	СВ	SER	811	17.662	54.604	17.786
	647	С	SER	811	15.555	53.823	16.742
0	648	0	SER	811	15.607	53.465	15.569
	649	OG	SER	811	18.474	53.915	16.843
	650	N	PHE	812	14.853	53.150	17.644
25	651	CA	PHE	812	14.108	51.963	17.235
	652	СВ	PHE	812	13.521	51.232	18.454
	653	CG	PHE	812	12.934	49.891	18.122
	654	CD1	PHE	812	13.739	48.872	17.624
30	655	CD2	PHE	812	11.569	49.676	18.214
	656	CE1	PHE	812	13.195	47.657	17.222
	657	CE2	PHE	812	11.011	48.450	17.812
35	658	CZ	PHE	812	11.827	47.446	17.310
	659	С	PHE	812	12.985	52.339	16.243
	660	0	PHE	812	12.573	51.528	15.408
	661	N	ALA	813	12.495	53.570	16.323
40	662	CA	ALA	813	11.446	54.012	15.416
	663	СВ	ALA	813	10.748	55.228	15.974
	664	С	ALA	813	12.025	54.327	14.038
45	665	0	ALA	813	11.487	53.875	13.025
	666	N	LEU	814	13.104	55.109	13.987
	667	CA	LEU	814	13.724	55.420	12.700
50	668	СВ	LEU	814	14.965	56.293	12.899
50	669	CG	LEU	814	15.989	56.573	11.792
	670	CD1	LEU	814	15.697	57.812	10.905
	671	CD2	LEU	814	17.278	56.803	12.556
55	672	С	LEU	814	14.079	54.080	12.050
	673	0	LEU	814	13.740	53.851	10.888

	THREE-DIMI	ENSIONAL COOF		R OBTAINED FR			THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Υ	Z
	674	N	SER	815	14.728	53.177	12.790
	675	CA	SER	815	15.034	51.888	12.204
10	676	С	SER	815	13.831	51.476	11.361
10	677	0	SER	815	13.916	51.310	10.148
	678	СВ	SER	815	15.238	50.928	13.368
	679	OG	SER	815	15.627	49.668	12.894
15	680	N	TRP	816	12.685	51.361	12.019
	681	CA	TRP	816	11.434	50.978	11.379
	682	СВ	TRP	816	10.315	51.055	12.403
20	683	CG	TRP	816	9.047	50.515	11.895
	684	CD2	TRP	816	8.731	49.134	11.739
	685	CE2	TRP	816	7.411	49.065	11.243
	686	CE3	TRP	816	9.462	47.951	11.926
25	687	CD1	TRP	816	7.930	51.215	11.522
	688	NE1	TRP	816	6.939	50.341	11.139
	689	CZ2	TRP	816	6.775	47.845	10.988
30	690	CZ3	TRP	816	8.835	46.731	11.667
	691	CH2	TRP	816	7.504	46.690	11.180
	692	С	TRP	816	11.010	51.780	10.145
	693	0	TRP	816	10.683	51.213	9.110
35	694	N	ARG	817	10.969	53.099	10.266
	695	CA	ARG	817	10.557	53.921	9.143
	696	СВ	ARG	817	10.573	55.403	9.531
40	697	CG	ARG	817	9.526	55.805	10.563
	698	CD	ARG	817	9.295	57.307	10.536
	699	NE	ARG	817	10.508	58.059	10.853
	700	cz	ARG	817	11.111	58.023	12.035
45	701	NH1	ARG	817	10.639	57.318	13.120
	702	NH2	ARG	817	12.266	58.742	12.185
	703	С	ARG	817	11.509	53.676	7.978
50	704	0	ARG	817	11.117	53.731	6.809
	705	N	SER	818	12.756	53.381	8.314
	706	CA	SER	818	13.786	53.127	7.321
	707	СВ	SER	818	15.145	53.168	7.986
55	708	OG	SER	818	15.502	54.445	8.498
	709	С	SER	818	13.614	51.810	6.609

	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	X	Y	Z
_	710	0	SER	818	13.688	51.727	5.385
	711	N	TYR	819	13.409	50.767	7.383
	712	CA	TYR	819	13.229	49.477	6.787
	713	СВ	TYR	819	13.071	48.486	7.923
	714	CG	TYR	819	12.184	47.309	7.698
	715	CD1	TYR	819	12.514	46.302	6.796
	716	CE1	TYR	819	11.782	45.115	6.751
	717	CD2	TYR	819	11.087	47.115	8.532
	718	CE2	TYR	819	10.353	45.948	8.494
	719	CZ	TYR	819	10.704	44.948	7.616
 	720	ОН	TYR	819	9.962	43.786	7.582
_	721	С	TYR	819	12.008	49.556	5.874
-	722	0	TYR	819	12.083	49.263	4.685
	723	N	LYS	820	10.905	50.032	6.412
	724	CA	LYS	820	9.666	50.118	5.652
-	725	СВ	LYS	820	8.555	50.467	6.636
 -	726	CG	LYS	820	7.247	50.738	5.915
-	727	CD	LYS	820	6.567	49.442	5.644
	728	С	LYS	820	9.616	51.061	4.440
	729	0	LYS	820	8.699	50.967	3.621
-	730	CE	LYS	820	5.244	49.709	4.914
一	731	NZ	LYS	820	4.568	48.428	4.643
	732	N	HIS	821	10.606	51.940	4.292
	733	CA	HIS	821	10.583	52.921	3.208
-	734	СВ	HIS	821	10.437	54.309	3.843
	735	С	HIS	821	11.787	52.899	2.268
	736	0	HIS	821	12.029	53.863	1.54
	737	CG	HIS	821	9.186	55.009	3.400
	738	ND1	HIS	821	8.237	54.502	2.510
	739	CD2	HIS	821	8.840	56.279	3.84
	740	CE1	HIS	821	7.366	55.529	2.49
Γ	741	NE2	HIS	821	7.651	56.623	3.25
	742	N	THR	822	12.538	51.803	2.26
	743	CA	THR	822	13.716	51.707	1.41
	744	СВ	THR	822	14.564	52.989	1.50

TABLE 11 (continued)

	THREE-DIME	ENSIONAL COOR		R OBTAINED FR			THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	746	0	THR	822	15.775	50.564	1.832
	747	OG1	THR	822	13.817	54.114	1.061
10	748	CG2	THR	822	15.853	53.021	0.656
10	749	N	ASN	823	13.871	49.445	2.243
	750	CA	ASN	823	14.534	48.220	2.692
	751	СВ	ASN	823	15.012	47.386	1.485
15	752	С	ASN	823	15.748	48.439	3.611
	753	0	ASN	823	16.647	47.601	3.634
	754	CG	ASN	823	13.948	46.974	0.462
20	755	OD1	ASN	823	13.800	47.565	-0.598
20	756	ND2	ASN	823	13.160	45.972	0.742
	757	N	SER	824	15.808	49.544	4.349
	758	CA	SER	824	16.954	49.752	5.244
25	759	СВ	SER	824	17.191	48.480	6.076
	760	С	SER	824	18.265	50.165	4.543
	761	0	SER	824	19.360	49.892	5.060
30	762	OG	SER	824	17.680	47.386	5.293
	763	N	GLN	825	18.143	50.818	3.385
	764	CA	GLN	825	19.282	51.297	2.587
	765	СВ	GLN	825	18.906	51.322	1.097
35	766	С	GLN	825	19.584	52.736	3.015
	767	0	GLN	825	20.737	53.162	3.140
	768	CG	GLN	825	20.033	51.767	0.108
40	769	CD	GLN	825	19.715	51.875	-1.389
	770	OE1	GLN	825	20.556	52.257	-2.187
	771	NE2	GLN	825	18.517	51.579	-1.825
	772	N	PHE	826	18.496	53.472	3.223
45	773	CA	PHE	826	18.522	54.867	3.621
	774	СВ	PHE	826	17.631	55.670	2.652
	775	С	PHE	826	18.014	54.998	5.074
50	776	0	PHE	826	17.453	54.048	5.623
	777	CG	PHE	826	18.000	55.595	1.162
	778	CD1	PHE	826	17.467	54.574	0.368
	779	CD2	PHE	826	18.910	56.497	0.605
55	780	CE1	PHE	826	17.853	54.445	-0.962
	781	CE2	PHE	826	19.288	56.374	-0.729

TABLE 11 (continued)

\vdash	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
-	782	CZ	PHE	826	18.762	55.347	-1.511
-	783	N N	LEU	827	18.251	56.154	5.696
\vdash	784	CA	LEU	827	17.788	56.453	7.058
-	785	СВ	LEU	827	18.886	57.119	7.902
\vdash	786	CG	LEU	827	19.920	56.225	8.582
-	787	CD1	LEU	827	20.807	57.060	9.505
-	788	CD2	LEU	827	19.202	55.145	9.369
\vdash	789	C	LEU	827	16.669	57.452	6.843
\vdash	790	0	LEU	827	16.913	58.551	6.372
\vdash	791	N	TYR	828	15.441	57.090	7.191
\vdash	792	CA	TYR	828	14.331	58.004	6.948
-	793	СВ	TYR	828	13.148	57.169	6.351
-	794	С	TYR	828	13.884	58.813	8.148
\vdash	795	0	TYR	828	12.825	58.556	8.710
-	796	CG	TYR	828	13.150	57.149	4.832
-	797	CD1	TYR	828	14.257	56.721	4.017
-	798	CD2	TYR	828	11.970	57.613	4.164
H	799	CE1 1	TYR	828	14.156	56.768	2.578
ŀ	800	CE2	TYR	828	11.858	57.630	2.734
ŀ	801	CZ	TYR	828	12.951	57.195	1.913
ŀ	802	ОН	TYR	828	12.850	57.211	0.539
-	803	N	PHE	829	14.660	59.812	8.535
+	804	CA	PHE	829	14.262	60.597	9.684
-	805	СВ	PHE	829	15.320	61.671	9.972
	806	CG	PHE	829	16.625	61.104	10.525
l	807	CD1	PHE	829	17.590	60.544	9.688
t	808	CD2	PHE	829	16.893	61.149	11.891
ļ	809	CE1	PHE	829	18.803	60.037	10.205
f	810	CE2	PHE	829	18.093	60.642	12.411
Ì	811	CZ	PHE	829	19.049	60.094	11.567
İ	812	С	PHE	829	12.815	61.141	9.542
Ì	813	0	PHE	829	12.088	61.226	10.530
	814	N	ALA	830	12.389	61.465	8.323
	815	CA	ALA	830	11.012	61.912	8.054
1	816	СВ	ALA	830	10.922	63.421	8.091

	THREE-DIME			R OBTAINED FR		Y MODELING OF WITH FP	THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	818-	0	ALA	830	11.690	61.306	5.852
	819	N	PRO	831	9.507	60.970	6.295
10	820	CD	PRO	831	8.262	60.670	7.030
10	821	CA	PRO	831	9.417	60.478	4.911
	822	СВ	PRO	831	7.961	60.011	4.804
	823	CG	PRO	831	7.665	59.539	6.198
15	824	С	PRO	831	9.790	61.542	3.867
	825	0	PRO	831	9.926	61.245	2.674
	826	N	ASP	832	9.977	62.772	4.352
20	827	CA	ASP	832	10.339	63.935	3.539
20	828	СВ	ASP	832	9.543	65.143	3.974
	829	CG	ASP	832	10.046	65.683	5.300
	830	OD1	ASP	832	10.054	64.891	6.255
25	831	OD2	ASP	832	10.454	66.863	5.392
	832	С	ASP	832	11.798	64.340	3.753
	833	0	ASP	832	12.284	65.254	3.090
30	834	N	LEU	833	12.472	63.722	4.713
	835	CA	LEU	833	13.861	64.082	4.992
	836	СВ	LEU	833	13.930	64.909	6.282
	837	CG	LEU	833	15.281	65.514	6.662
35	838	CD1	LEU	833	16.340	64.441	6.845
	839	CD2	LEU	833	15.696	66.464	5.573
	840	С	LEU	833	14.716	62.823	5.121
40	841	0	LEU	833	14.824	62.254	6.207
	842	N	VAL	834	15.334	62.407	4.019
	843	CA	VAL	834	16.158	61.190	3.977
	844	СВ	VAL	834	15.808	60.368	2.693
45	845	С	VAL	834	17.674	61.416	3.967
	846	0	VAL	834	18.170	62.415	3.448
	847	CG1	VAL	834	16.396	60.934	1.376
50	848	CG2	VAL	834	14.282	60.184	2.512
	849	N	PHE	835	18.416	60.488	4.560
	850	CA	PHE	835	19.854	60.616	4.494
	851	СВ	PHE	835	20.630	60.228	5.745
55	852	С	PHE	835	20.280	59.596	3.485
	853	0	PHE	835	20.286	58.387	3.725

TABLE 11 (continued)

٦	THREE-DIMEN	ISIONAL COORI	DINATES OF ME	OBTAINED FRO	OM HOMOLOGY IN COMPLEX W	MODELING OF TI ITH FP	HE CRYSTAL
-		STRUC	RESIDUE	RESIDUE #	X	Y	Z
-	ATOM	CG	PHE	835	20.548	61.224	6.842
-	854		PHE	835	19.878	62.496	6.797
_	855	CD1	PHE	835	21.319	60.857	7.977
0	856	CD2	PHE	835	20.101	63.432	7.850
	857	CE1	PHE	835	21.570	61.796	9.005
L	858	CE2	PHE	835	21.027	63.115	8.896
	859	CZ	ASN	836	20.603	60.152	2.328
15	860	N	ASN	836	21.032	59.451	1.146
	<u>861</u>	CA	ASN	836	20.450	60.127	-0.060
	862	СВ	ASN	836	20.793	61.596	-0.078
20	863	CG	ASN	836	21.630	62.058	0.693
1	864	OD1	ASN	836	20.115	62.368	-1.049
1	865	ND2	ASN	836	22.534	59.501	0.992
	866	C	ASN	836	23.249	60.240	1.687
25	867	0	GLU	837	22.949	58.760	-0.032
	868	N	GLU	837	24.329	58.541	-0.415
	869	CA	GLU	837	24.396	57.808	-1.742
30	870	CB	GLU	837	25.840	57.675	-2.174
	871	CG	GLU	837	26.031	57.213	-3.602
	872	CD	GLU	837	26.427	58.052	-4.450
	873	OE1	GLU	837	25.794	56.012	-3.869
35	874	OE2		837	25.227	59.722	-0.535
	875	C	GLU	837	26.416	59.668	-0.228
	876	0	GLU	838	24.647	60.782	-1.040
40	877	N	GLU	838	25.378	61.978	-1.248
	878	CA	GLU	838	24.642	62.790	-2.263
	879	CB	GLU	838	25.038	62.639	-3.742
.=	880	CG	GLU	838	26.168	61.663	-4.134
45	881	CD	GLU	838	27.334	61.821	-3.776
	882	OE1	GLU	838	25,407	62.686	0.081
	883	С	GLU	838	26.369	63.362	0.419
50	884	0	GLU	838	25.730	60.547	-4.780
	885	OE2	GLU	839	24.345	62.521	0.845
	886	N	LYS	839	24.288	63.151	2.151
	887	CA	LYS	839	22.863	63.198	2.639
55	888	CB	LYS	839	22.311	64.577	2.459

	THREE-DIME			R OBTAINED FR		Y MODELING OF WITH FP	THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	890	CD	LYS	839	20.763	64.663	2.497
	891	С	LYS	839	25.096	62.361	3.137
10	892	0	LYS	839	25.659	62.856	4.103
10	893	CE	LYS	839	20.171	65.129	3.825
	894	NZ	LYS	839	18.664	65.315	3.753
	895	N	MET	840	25.122	61.087	2.878
15	896	CA	MET	840	25.789	60.159	3.731
	897	СВ	MET	840	25.603	58.818	3.159
	898	CG	MET	840	25.733	57.886	. 4.225
20	899	SD	MET	840	25.047	58.641	5.697
	900	CE	MET	840	24.686	57.251	6.529
	901	С	MET	840	27.226	60.385	3.766
	902	0	MET	840	28.007	59.936	4.606
25	903	N	HIS	841	27.573	61.081	2.751
	904	CA	HIS	841	28.906	61.294	2.575
	905	СВ	HIS	841	29.072	61.097	1.163
30	906	С	HIS	841	29.329	62.646	3.089
	907	0	HIS	841	30.409	63.072	2.743
	908	CG	HIS	841	30.015	59.972	0.852
	909	ND1	HIS	841	30.678	59.182	1.788
35	910	CD2	HIS	841	30.332	59.596	-0.446
	911	CE1	HIS	841	31.356	58.365	0.960
	912	NE2	HIS	841	31.210	58.546	-0.381
40	913	N	GLN	842	28.541	63.372	3.892
	914	CA	GLN	842	29.156	64.615	4.349
	915	СВ	GLN	842	28.132	65.700	4.833
	916	C	GLN	842	30.070	64.165	5.438
45	917	0	GLN	842	30.086	62.991	5.841
	918	CG	GLN	842	27.078	65.394	5.944
	919	CD	GLN	842	27.589	65.356	7.401
50	920	OE1	GLN	842	28.755	65.223	7.682
	921	NE2	GLN	842	26.648	65.484	8.434
	922	N	SER	843	30.830	65.108	5.957
	923	CA	SER	843	31.759	64.768	7.003
55	924	СВ	SER	843	32.336	66.099	7.608
	925	С	SER	843	31.391	63.778	8.034

TABLE 11 (continued)

-	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	x IN COMPLEX \	Y	Z
	926	0	SER	843	31.420	62.553	7.872
	927	OG	SER	843	33.011	66.917	6.653
	928	N	ALA	844	30.999	64.345	9.132
-	929	CA	ALA	844	30.810	63.473	10.210
-	930	СВ	ALA	844	31.009	64.296	11.460
	931	C	ALA	844	29.573	62.635	10.269
	932	0	ALA	844	29.221	62.183	11.333
-	933	N N	MET	845	28.968	62.331	9.135
<u> </u>	934	CA	MET	845	27.710	61.611	9.171
-	935	СВ	MET	845	26.946	61.885	7.902
<u> </u>	936	CG	MET	845	25.462	61.900	8.075
-	937	SD	MET	845	24.889	63.585	7.922
-	938	CE	MET	845	24.327	63.891	9.531
\vdash	939	C	MET	845	27.725	60.135	9.325
-	940	0	MET	845	27.067	59.529	10.174
-	941	N	TYR	846	28.451	59.556	8.404
\vdash	942	CA	TYR	846	28.495	58.155	8.351
-	943	СВ	TYR	846	29.415	57.741	7.245
	944	CG	TYR	846	29.192	56.313	7.082
-	945	CD1	TYR	846	28.044	55.867	6.448
-	946	CE1	TYR	846	27.676	54.551	6.503
\vdash	947	CD2	TYR	846	29.983	55.399	7.763
	948	CE2	TYR	846	29.627	54.082	7.832
\vdash	949	CZ	TYR	846	28.470	53.663	7.203
-	950	ОН	TYR	846	28.093	52.340	7.273
-	951	С	TYR	846	28.882	57.431	9.614
	952	0	TYR	846	28.392	56.346	9.902
	953	N	GLU	847	29.778	58.022	10.375
	954	CA	GLU	847	30.229	57.375	11.588
	955	СВ	GLU	847	31.460	58.107	12.190
	956	С	GLU	847	29.169	57.332	12.645
-	957	0	GLU	847	29.200	56.488	13.527
	958	CG	GLU	847	32.714	58.107	11.274
	959	CD	GLU	847	32.724	59.178	10.124
一	960	OE1	GLU	847	31.953	60.136	10.244
H	961	OE2	GLU	847	33.520	58.935	9.212

	THREE-DIME	ENSIONAL COOF STRU		R OBTAINED FR			THE CRYSTA
	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	962	N	LEU	848	28.273	58.308	12.559
	963	CA	LEU	848	27.154	58.520	13.459
Ī	964	СВ	LEU	848	26.290	59.841	13.644
	965	С	LEU	848	25.982	57.658	12.978
Ì	966	0	LEU	848	25.422	56.844	13.718
ľ	967	CG	LEU	848	26.887	61.083	14.323
Ī	968	CD1	LEU	848	27.925	61.493	13.330
Ī	969	CD2	LEU	848	26.178	62.437	14.532
	970	N	CYS :	849	25.650	57.839	11.701
	971	CA	CYS	849	24.532	57.155	11.019
	972	СВ	CYS	849	24.405	57.671	9.579
	973	SG	CYS	849	23.678	59.351	9.531
	974	С	CYS	849	24.543	55.623	10.958
Ī	975	0	CYS	849	23.506	54.988	10.769
	976	N	GLN	850	25.715	55.048	11.133
	977	CA	GLN	850	25.944	53.608	11.062
	978	СВ	GLN	850	27.406	53.378	11.325
	979	CG	GLN .	850	27.924	51.916	11.314
	980	С	GLN	850	25.184	52.763	12.043
ſ	981	0	GLN	850	24.733	51.634	11.793
	982	CD	GLN	850	27.809	51.215	12.681
	983	OE1	GLN	850	27.149	50.200	12.827
	984	NE2	GLN	850	28.565	51.802	13.727
ſ	985	N	GLY	851	25.145	53.330	13.217
ſ	986	CA	GLY	851	24.522	52.700	14.298
	987	С	GLY	851	23.106	52.528	14.083
ſ	988	0	GLY	851	22.547	51.454	14.255
	989	N	MET	852	22.519	53.591	13.607
	990	CA	MET	852	21.140	53.494	13.346
ſ	991	СВ	MET	852	20.608	54.871	13.110
ſ	992	CG	MET	852	20.424	55.544	14.421
	993	SD	MET	852	21.486	56.946	14.587
	994	CE	MET	852	20.673	58.004	13.550
	995	С	MET	852	20.810	52.578	12.197
ſ	996	0	MET	852	19.837	51.835	12.279
Γ	997	N	HIS	853	21.612	52.609	11.129

TABLE 11 (continued)

	THREE-DIMEN	NSIONAL COOR STRU(DINATES OF MI CTURE COORD	INATES OF GRO	IN COMPLEX W	MODELING OF T	
	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	X	Y	Z
	998	CA	HIS	853	21.304	51.767	9.970
10	999	СВ	HIS	853	22.420	52.169	8.960
	1000	С	HIS	853	21.379	50.345	10.421
	1001	0	HIS	853	20.659	49.469	9.951
	1002	CG	HIS	853	22.400	51.593	7.579
15	1003	ND1	HIS	853	23.387	50.809	7.081
	1004	CD2	HIS	853	21.537	51.981	6.514
	1005	CE1	HIS	853	23.138	50.710	5.752
	1006	NE2	HIS	853	21.998	51.423	5.314
20	1007	N	GLN	854	22.262	50.110	11.355
	1008	CA	GLN	854	22.339	48.801	11.876
	1009	СВ	GLN	854	23.440	48.628	12.964
25	1010	С	GLN	854	20.984	48.364	12.473
	1011	0	GLN	854	20.608	47.196	12.391
	1012	CG	GLN	854	24.048	47.211	13.119
30	1013	CD	GLN	854	23.110	46.185	13.774
	1014	OE1	GLN	854	22.675	45.231	13.152
	1015	NE2	GLN	854	22.838	46.395	15.146
	1016	N	ILE	855	20.241	49.258	13.103
35	1017	CA	ILE	855	19.007	48.728	13.636
	1018	СВ	ILE	855	18.540	49.626	14.847
	1019	C	ILE	855	18.008	48.491	12.500
40	1020	0	ILE	855	17.340	47.453	12.470
	1021	CG2	ILE	855	18.443	51.150	14.670
	1022	CG1	ILE	855	17.328	49.137	15.655
	1023	CD1	ILE	855	17.540	47.718	16.167
	1024	N N	SER	856	17.957	49.403	11.534
45	1025	CA	SER	856	17.062	49.251	10.377
	1026	СВ	SER	856	17.225	50.415	9.416
50	1027	OG	SER	856	16.618	50.174	8.183
	1028	C	SER	856	17.331	47.979	9.573
	1029	0	SER	856	16.412	47.323	9.066
	1030	N	LEU	857	18.611	47.666	9.421
<i>55</i>	1031	CA	LEU	857	19.038	46.485	8.683
	1032	СВ	LEU	857	20.575	46.447	8.642
	1033	C	LEU	857	18.502	45.237	9.374

	THREE-DIME			R OBTAINED FR		Y MODELING OF WITH FP	THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Υ	Z
	1034	0	LEU	857	17.965	44.322	8.748
	1035	CG	LEU	857	21.320	47.661	8.023
10	1036	CD1	LEU	857	22.829	47.385	7.974
10	1037	CD2	LEU	857	20.812	48.015	6.616
	1038	N	GLN	858	18.650	45.240	10.691
	1039	CA	GLN	858	18.238	44.144	11.542
15	1040	СВ	GLN	858	18.684	44.468	12.954
	1041	CG	GLN	858	19.288	43.311	13.700
	1042	CD	GLN	858	20.205	42.435	12.870
20	1043	OE1	GLN	858	20.787	42.893	11.862
	1044	С	GLN	858	16.746	43.849	11.479
	1045	0	GLN	858	16.340	42.686	11.548
	1046	NE2	GLN	858	20.290	41.153	13.122
25	1047	N	PHE	859	15.939	44.899	11.363
	1048	CA	PHE	859	14.487	44.761	11.249
	1049	СВ	PHE	859	13.657	46.030	11.128
30	1050	С	PHE	859	14.240	44.094	9.903
	1051	0	PHE	859	13.519	43.102	9.792
	1052	CG	PHE	859	13.725	46.803	12.385
	1053	CD1	PHE	859	14.553	46.478	13.511
35	1054	CD2	PHE	859	12.875	47.932	12.422
	1055	CE1	PHE	859	14.586	47.350	14.620
	1056	CE2	PHE	859	12.808	48.720	13.599
40	1057	CZ	PHE	859	13.718	48.480	14.649
	1058	N	VAL	860	14.871	44.645	8.879
	1059	CA	VAL	860	14.758	44.135	7.528
	1060	СВ	VAL	860	15.677	44.943	6.610
45	1061	С	VAL	860	15.115	42.651	7.454
	1062	0	VAL	860	14.315	41.819	7.012
	1063	CG1	VAL	860	15.273	46.430	6.469
50	1064	CG2	VAL	860	15.831	44.420	5.154
	1065	N	ARG	861	16.326	42.334	7.893
	1066	CA	ARG	861	16.825	40.972	7.892
	1067	СВ	ARG	861	18.162	40.913	8.593
55	1068	CG	ARG	861	18.870	39.604	8.405
	1069	CD	ARG	861	19.848	39.390	9.514

TABLE 11 (continued)

ļ			RESIDUE	INATES OF GRO	X	Y	Z
-	ATOM	ATOM TYPE		861	19.228	38.616	10.571
	1070	NE	ARG	861	19.711	38.535	11.801
ļ	1071	CZ	ARG	861	20.935	39.043	12.107
	1072	NH1	ARG	861	19.004	37.885	12.767
	1073	NH2	ARG	861	15.898	40.026	8.614
	1074	С	ARG		15.741	38.865	8.228
	1075	0	ARG	861	15.297	40.508	9.689
	1076	N	LEU	862	14.413	39.666	10.468
	1077	CA	LEU	862	14.535	40.041	11.944
	1078	СВ	LEU	862	15.646	39.262	12.636
	1079	CG	LEU	862	15.630	39.590	14.115
	1080	CD1	LEU	862	15.417	37.773	12.426
	1081	CD2	LEU	862	 	39.682	10.028
	1082	С	LEU	862	12.952	38.979	10.620
	1083	0	LEU	862	12.119	40.448	8.965
	1084	N	GLN	863	12.680		8.392
	1085	CA	GLN	863	11.340	40.653	7.457
	1086	СВ	GLN	863	10.916	39.504	5.993
	1087	CG	GLN	863	11.428	39.629	5.273
	1088	CD	GLN	863	10.976	40.915	4.789
	1089	OE1	GLN	863	11.805	41.700	5.109
	1090	NE2	GLN	863	9.586	41.107	9.514
	1091	С	GLN	863	10.351	40.827	
	1092	0	GLN	863	9.407	40.053	9.670
	1093	N	LEU	864	10.596	41.870	10.296
	1094	CA	LEU	864	9.779	42.199	11.447
	1095	СВ	LEU	864	10.528	43.160	12.410
	1096	С	LEU	864	8.415	42.778	11.107
	1097	0	LEU	864	8.271	43.751	10.368
	1098	CG	LEU	864	11.894	42.701	12.985
	1099	CD1	LEU	864	12.416	43.734	13.994
	1100	CD2	LEU	864	11.824	41.317	13.651
	1101	N	THR	865	7.429	42.112	11.694
	1102	CA	THR	865	5.996	42.362	11.621
	1103	СВ	THR	865	5.338	41.183	12.351
	1104	С	THR	865	5.650	43.704	12.299
	1105	0	THR	865	6.383	44.157	13.177

	THREE-DIME	NSIONAL COOF			OM HOMOLOGY		THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	1106	OG1	THR	865	5.645	39.958	11.697
	1107	CG2	THR	865	3.796	41.202	12.431
40	1108	N	PHE	866	4.549	44.344	11.902
10	1109	CA	PHE	866	4.179	45.602	12.542
	1110	СВ	PHE	866	2.971	46.256	11.885
	1111 1	CG	PHE	866	2.764	47.665	12.387
15	1112	CD1	PHE	866	3.849	48.527	12.499
	1113	CE1	PHE	866	3.698	49.840	12.880
	1114	CD2	PHE	866	1.491	48.163	12.686
20	1115	CE2	PHE	866	1.325	49.499	13.076
20	1116	CZ	PHE	866	2.443	50.328	13.161
	1117	С	PHE	866	3.810	45.338	13.983
	1118	0	PHE	866	4.164	46.095	14.882
25	1119	N	GLU	867	3.068	44.261	14.198
	1120	CA	GLU	867	2.654	43.934	15.538
	1121	СВ	GLU	867	1.665	42.778	15.514
30	1122	CG	GLU	867	0.327	43.271	15.008
	1123	CD	GLU	867	-0.811	42.319	15.281
	1124	OE1	GLU	867	-0.557	41.199	15.789
	1125	OE2	GLU	867	-1.968	42.697	14.982
35	1126	С	GLU	867	3.868	43.646	16.384
	1127	0	GLU	867	4.059	44.288	17.417
	1128	N	GLU	868	4.698	42.705	15.947
40	1129	CA	GLU	868	5.907	42.402	16.692
	1130	СВ	GLU	868	6.830	41.522	15.870
	1131	CG	GLU	868	6.445	40.076	15.819
	1132	CD	GLU	868	7.082	39.394	14.633
45	1133	OE1	GLU	868	7.563	40.120	13.738
	1134	OE2	GLU	868	7.098	38.145	14.578
	1135	С	GLU	868	6.639	43.703	17.021
50	1136	0	GLU	868	7.153	43.870	18.127
	1137	N	TYR	869	6.682	44.620	16.057
	1138	CA	TYR	869	7.362	45.912	16.220
	1139	СВ	TYR	869	7.334	46.717	14.917
55	1140	CG	TYR	869	7.566	48.214	15.110
	1141	CD1	TYR	869	8.841	48.707	15.377

TABLE 11 (continued)

	THREE-DIME	NSIONAL COOR	DINATES OF M	R OBTAINED FR	OM HOMOLOGY x IN COMPLEX V	MODELING OF	THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Υ	Z
	1142	CE1	TYR	869	9.078	50.090	15.512
	1143	CD2	TYR	869	6.518	49.135	14.988
	1144	CE2	TYR	869	6.741	50.522	15.121
10	1145	CZ	TYR	869	8.031	50.995	15.377
	1146	ОН	TYR	869	8.278	52.347	15.435
	1147	С	TYR	869	6.782	46.823	17.285
15	1148	0	TYR	869	7.505	47.585	17.942
	1149	N	THR	870	5.459	46.790	17.394
	1150	CA	THR	870	4.757	47.628	18.332
	1151	СВ	THR	870	3.267	47.598	18.011
20	1152	С	THR	870	5.034	47.166	19.744
	1153	0	THR	870	5.166	47.973	20.677
	1154	OG1	THR	870	3.028	48.107	16.705
25	1155	CG2	THR	870	2.352	48.438	18.927
	1156	N	ILE	871	5.140	45.850	19.877
	1157	CA	ILE	871	5.423	45.234	21.144
30	1158	СВ	ILE	871	5.154	43.742	21.054
30	1159	С	ILE	871	6.861	45.490	21.549
	1160	0	ILE	871	7.126	45.921	22.670
	1161	CG2	ILE	871	6.045	43.029	19.990
35	1162	CG1	ILE	871	5.301	42.970	22.405
	1163	CD1	ILE	871	4.189	43.217	23.446
	1164	N	MET	872	7.799	45.254	20.640
40	1165	CA	MET	872	9.204	45.461	20.964
,,	1166	СВ	MET	872	10.079	45.164	19.745
	1167	CG	MET	872	10.038	43.703	19.358
	1168	SD	MET	872	10.628	43.346	17.700
45	1169	CE	MET	872	12.453	43.439	17.963
	1170	С	MET	872	9.497	46.859	21.456
	1171	0	MET	872	10.363	47.055	22.306
50	1172	N	LYS	873	8.775	47.837	20.936
	1173	CA	LYS	873	9.053	49.209	21.332
	1174	СВ	LYS	873	8.538	50.163	20.271
	1175	CG	LYS	873	8.908	51.591	20.516
55	1176	CD	LYS	873	8.754	52.389	19.236
	1177	CE	LYS	873	7.362	52.259	18.639

	THREE-DIME	NSIONAL COOF		R OBTAINED FR			THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	X	Y	Z
	1178	NZ	LYS	873	6.239	53.012	19.336
	1179	С	LYS	873	8.491	49.569	22.700
10	1180	0	LYS	873	8.978	50.493	23.351
10	1181	N	VAL	874	7.463	48.847	23.128
	1182	CA	VAL	874	6.866	49.089	24.430
	1183	СВ	VAL	874	5.492	48.376	24.544
15	1184	С	VAL	874	7.893	48.487	25.380
	1185	0	VAL	874	8.224	49.083	26.404
	1186	CG1	VAL	874	4.419	48.922	23.572
20	1187	CG2	VAL	874	4.821	48.392	25.946
	1188	N	LEU	875	8.428	47.320	25.008
	1189	CA	LEU	875	9.457	46.653	25.807
	1190	СВ	LEU	875	9.812	45.282	25.220
25	1191	CG	LEU	875	8.794	44.155	25.429
	1192	CD1	LEU	875	9.347	42.853	24.943
	1193	CD2	LEU	875	8.470	44.024	26.891
30	1194	С	LEU .	875	10.730	47.502	25.899
	1195	0	LEU	875	11.542	47.320	26.800
	1196	N	LEU	876	10.913	48.436	24.982
	1197	CA	LEU	876	12.115	49.251	25.029
35	1198	СВ	LEU	876	12.420	49.780	23.628
	1199	CG	LEU	876	13.716	49.452	22.883
	1200	CD1	LEU	876	14.049	47.987	22.801
40	1201	CD2	LEU	876	13.505	49.985	21.502
	1202	С	LEU	876	11.992	50.402	26.028
	1203	0	LEU	876	12.992	50.971	26.459
	1204	N	LEU	877	10.764	50.753	26.385
45	1205	CA	LEU	877	10.515	51.824	27.336
	1206	СВ	LEU	877	9.045	52.267	27.204
į	1207	CG	LEU	877	8.268	53.010	28.298
50	1208	CD1	LEU	877	8.854	54.379	28.492
	1209	CD2	LEU	877	6.797	53.135	27.915
	1210	С	LEU	877	10.809	51.215	28.712
	1211	0	LEU	877	11.403	51.849	29.592
55	1212	N	LEU	878	10.432	49.948	28.853
	1213	CA	LEU	878	10.611	49.201	30.091

TABLE 11 (continued)

	THREE-DIME	NSIONAL COOR		R OBTAINED FR			THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	х	Y	Z
	1214	СВ	LEU	878	9.394	48.292	30.296
	1215	CG	LEU	878	8.073	48.871	29.772
	1216	CD1	LEU	878	6.945	47.851	29.885
10	1217	CD2	LEU	878	7.750	50.136	30.547
	1218	С	LEU	878	11.887	48.349	30.075
	1219	0	LEU	878	11.906	47.272	30.680
15	1220	N	SER	879	12.949	48.825	29.416
	1221	CA	SER	879	14.183	48.040	29.311
	1222	СВ	SER	879	14.633	47.944	27.855
00	1223	OG	SER	879	15.010	49.185	27.276
20	1224	С	SER	879	15.377	48.434	30.177
	1225	0	SER	879	16.435	47.801	30.115
	1226	N	THR	880	15.241	49.506	30.945
25	1227	CA	THR	880	16.306	49.863	31.866
	1228	СВ	THR	880	17.441	50.658	31.193
	1229	С	THR	880	15.672	50.612	33.024
30	1230	0	THR	880	14.854	51.521	32.838
50	1231	OG1	THR	880	18.052	49.883	30.170
	1232	CG2	THR	880	18.611	51.086	32.105
	1233	N	ILE	881	16.011	50.141	34.219
35	1234	CA	ILE	881	15.529	50.691	35.474
	1235	СВ	ILE	881	14.715	49.639	36.255
	1236	С	ILE	881	16.750	51.096	36.301
40	1237	0	ILE	881	17.875	50.683	36.007
	1238	CG2	ILE	881	14.098	50.207	37.571
	1239	CG1	ILE	881	13.571	48.961	35.436
	1240	CD1	ILE	881	12.952	47.695	36.064
45	1241	N	PRO	882	16.541	51.911	37.353
	1242	CD	PRO	882	15.213	52.253	37.874
	1243	CA	PRO	882	17.583	52.405	38.259
50	1244	СВ	PRO	882	16.793	53.230	39.274
	1245	CG	PRO	882	15.491	53.531	38.574
	1246	С	PRO	882	18.231	51.194	38.909
	1247	0	PRO	882	17.620	50.126	38.947
55	1248	N	LYS	883	19.445	51.340	39.428
	1249	CA	LYS	883	20.117	50.199	40.051

	THREE-DIME			R OBTAINED FR		Y MODELING OF WITH FP	THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	X	Y	Z
	1250	СВ	LYS	883	21.558	50.551	40.430
	1251	CG	LYS	883	22.417	49.338	40.803
10	1252	CD	LYS	883	23.224	49.590	42.079
10	1253	CE	LYS	883	22.299	49.706	43.280
	1254	NZ	LYS	883	22.861	50.379	44.517
	1255	С	LYS	883	19.355	49.753	41.292
15	1256	0	LYS	883	19.617	48.681	41.849
	1257	N	ASP	884	18.408	50.581	41.721
	1258	CA	. ASP	884	17.606	50.272	42.889
20	1259	СВ	ASP	884	17.762	51.369	43.940
20	1260	CG	ASP	884	19.210	51.672	44.247
	1261	OD1	ASP	884	20.041	50.750	44.122
	1262	OD2	ASP	884	19.512	52.825	44.627
25	1263	С	ASP	884	16.138	50.131	42.515
	1264	0	ASP	884	15.251	50.464	43.303
	1265	N	GLY	885	15.882	49.635	41.309
30	1266	CA	GLY	885	14.507	49.480	40.885
	1267	С	GLY	885	13.772	50.793	41.061
	1268	0	GLY	885	14.325	51.788	41.531
	1269	N	LEU	886	12.497	50.792	40.704
35	1270	CA	LEU	886	11.704	52.001	40.798
	1271	СВ	LEU	886	10.794	52.067	39.584
	1272	CG	LEU	886	11.543	51.498	38.387
40	1273	CD1	LEU	886	10.575	50.833	37.457
	1274	CD2	LEU	886	12.319	52.589	37.698
	1275	С	LEU	886	10.886	52.021	42.069
	1276	0	LEU	886	11.072	51.198	42.965
45	1277	N	LYS	887	9.972	52.975	42.154
	1278	CA	LYS	887	9.131	53.063	43.320
	1279	СВ	LYS	887	8.698	54.508	43.562
50	1280	CG	LYS	887	7.958	54.747	44.880
	1281	CD	LYS	887	7.695	56.233	45.037
	1282	CE	LYS	887	6.960	56.606	46.316
	1283	NZ	LYS	887	6.728	58.098	46.415
55	1284	С	LYS	887	7.910	52.179	43.139
	1285	0	LYS	887	7.102	52.048	44.051

TABLE 11 (continued)

	THREE-DIME	ENSIONAL COOF STRU		IR OBTAINED FF DINATES OF GR			THE CRYST
	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
Ī	1286	N	SER	888	7.763	51.569	41.965
	1287	CA	SER	888	6.615	50.688	41.729
	1288	СВ	SER	888	5.567	51.386	40.850
ſ	1289	OG	SER	888	4.960	52.527	41.454
	1290	С	SER	888	7.027	49.362	41.087
Ī	1291	0	SER	888	6.225	48.699	40.426
Ī	1292	N	GLN	889	8.283	48.978	41.309
	1293	CA	GLN	889	8.846	47.746	40.773
Ī	1294	СВ	GLN	889	10.035	47.304	41.610
Ī	1295	CG	GLN	889	11.343	47.861	41.125
Ī	1296	CD	GLN	889	11.823	47.197	39.842
Ī	1297	OE1	GLN	889	12.707	47.715	39.166
Ī	1298	NE2	GLN	889	11.345	45.921	39.490
Ī	1299	С	GLN	889	7.904	46.574	40.640
Ī	1300	0	GLN	889	8.015	45.800	39.698
T	1301	N	ALA	890	6.994	46.410	41.583
ſ	1302	CA	ALA	890	6.090	45.281	41.470
ļ	1303	СВ	ALA	890	5.206	45.180	42.714
ľ	1304	С	ALA	890	5.253	45.430	40.199
ľ	1305	0	ALA	890	5.190	44.502	39.394
	1306	N	ALA	891	4.638	46.605	40.014
	1307	CA	ALA	891	3.819	46.882	38.830
	1308	СВ	ALA	891	3.170	48.281	38.928
	1309	С	ALA	891	4.707	46.811	37.580
	1310	0	ALA	891	4.391	46.110	36.619
Ī	1311	N	PHE	892	5.821	47.543	37.604
Γ	1312	CA	PHE	892	6.767	47.547	36.502
	1313	СВ	PHE	892	8.095	48.151	36.942
	1314	CG	PHE	892	9.110	48.217	35.852
	1315	CD1	PHE	892	9.105	49.277	34.959
Γ	1316	CD2	PHE	892	10.025	47.184	35.668
ſ	1317	CE1	PHE	892	10.000	49.328	33.900
	1318	CE2	PHE	892	10.928	47.218	34.606
	1319	CZ	PHE	892	10.912	48.291	33.716
	1320	С	PHE	892	7.045	46.128	36.016
ſ	1321	0	PHE	892	6.798	45.783	34.860

TABLE 11 (continued)

	THREE-DIME	ENSIONAL COOF			OM HOMOLOGY		THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	х	Y	Z
	1322	N	GLU	893	7.578	45.303	36.908
	1323	CA	GLU	893	7.899	43.935	36.543
	1324	СВ	GLU	893	8.440	43.176	37.770
10	1325	С	GLU	893	6.684	43.238	35.929
	1326	0	GLU	893	6.831	42.384	35.055
	1327	CG	GLU	893	7.451	42.934	38.958
15	1328	CD	GLU	893	7.989	42.272	40.229
	1329	OE1	GLU	893	7.298	42.072	41.219
	1330	OE2	GLU	893	9.304	41.928	40.153
20	1331	N	GLU	894	5.491	43.637	36.359
	1332	CA	GLU	894	4.232	43.066	35.869
	1333	СВ	GLU	894	3.100	43.444	36.828
	1334	CG	GLU	894	2.259	42.274	37.299
25	1335	CD	GLU	894	0.876	42.263	36.679
	1336	OE1	GLU	894	0.116	43.238	36.905
	1337	OE2	GLU	894	0.552	41.278	35.966
30	1338	С	GLU	894	3.879	43.542	34.455
	1339	0	GLU	894	3.375	42.779	33.628
	1340	N	MET	895	4.121	44.821	34.197
	1341	CA	MET	895	3.848	45.387	32.892
35	1342	СВ	MET	895	4.040	46.900	32.930
	1343	С	MET	895	4.847	44.714	31.975
	1344	0	MET	895	4.471	43.967	31.082
40	1345	CG	MET	895	3.096	47.676	33.873
	1346	SD	MET	895	3.257	49.445	33.578
	1347	CE	MET	895	2.384	50.038	35.034
	1348	N	ARG	896	6.134	44.938	32.213
45	1349	CA	ARG	896	7.114	44.290	31.373
	1350	СВ	ARG	896	8.462	44.273	32.055
	1351	CG	ARG	896	9.570	43.824	31.153
50	1352	CD	ARG	896	10.755	44.671	31.489
	1353	NE	ARG	896	11.915	44.395	30.662
	1354	CZ	ARG	896	12.544	43.231	30.646
	1355	NH1	ARG	896	12.208	42.170	31.438
55	1356	NH2	ARG	896	13.594	43.080	29.790
	1357	С	ARG	896	6.724	42.853	31.006

TABLE 11 (continued)

	THREE-DIME	ENSIONAL COOP STRU		R OBTAINED FR			THE CRYSTA
	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	1358	0	ARG	896	6.778	42.484	29.843
	1359	N	THR	897	6.321	42.040	31.982
l	1360	CA	THR	897	5.972	40.649	31.675
	1361	СВ	THR	897	5.836	39.832	32.966
ı	1362	С	THR	897	4.713	40.500	30.812
	1363	0	THR	897	4.537	39.495	30.117
	1364	OG1	THR	897	7.069	39.810	33.673
ı	1365	CG2	THR	897	5.460	38.344	32.797
ı	1366	N	ASN	898	3.840	41.500	30.855
ı	1367	CA	ASN	898	2.633	41.463	30.048
ı	1368	СВ	ASN	898	1.627	42.534	30.488
ı	1369	С	ASN	898	3.027	41.690	28.597
Ì	1370	0	ASN	898	2.551	40.981	27.705
ı	1371	CG	ASN	898	0.278	42.560	29.761
Ì	1372	OD1	ASN	898	-0.007	41.755	28.887
l	1373	ND2	ASN	898	-0.587	43.488	30.072
1	1374	N	TYR	899	3.901	42.668	28.358
l	1375	CA	TYR	899	4.357	42.916	26.993
	1376	СВ	TYR	899	4.958	44.319	26.837
ı	1377	CG	TYR	899	3.898	45.370	26.990
İ	1378	CD1	TYR	899	2.761	45.351	26.171
ļ	1379	CE1	TYR	899	1.691	46.186	26.418
l	1380	CD2	TYR	899	3.939	46.276	28.047
Ì	1381	CE2	TYR	899	2.873	47.116	28.304
	1382	CZ	TYR	899	1.747	47.061	27.493
Ī	1383	ОН	TYR	899	0.646	47.833	27.786
İ	1384	С	TYR	899	5.342	41.871	26.485
Ì	1385	0	TYR	899	5.514	41.745	25.278
ľ	1386	N	ILE	900	6.002	41.120	27.362
İ	1387	CA	ILE	900	6.888	40.094	26.830
İ	1388	СВ	ILE	900	7.818	39.464	27.891
ľ	1389	CG2	ILE	900	8.529	38.247	27.308
	1390	CG1	ILE	900	8.885	40.475	28.305
Ì	1391	CD1	ILE	900	9.789	39.977	29.395
ľ	1392	С	ILE	900	5.966	39.022	26.273
Ì	1393	0	ILE	900	6.308	38.318	25.332

TABLE 11 (continued)

	THREE-DIME	NSIONAL COOF			OM HOMOLOGY		THE CRYSTAL
5	MOTA	ATOM TYPE	RESIDUE	RESIDUE #	x	Υ	Z
	1394	N	LYS	901	4.774	38.920	26.847
	1395	CA	LYS	901	3.820	37.936	26.375
40	1396	СВ	LYS	901	2.807	37.615	27.481
10	1397	CG	LYS	901	3.401	36.899	28.709
	1398	CD	· LYS	901	2.301	36.662	29.743
	1399	CE	LYS	901	2.768	35.909	30.996
15	1400	NZ	LYS	901	1.690	35.710	32.047
	1401	С	LYS	901	3.116	38.438	25.106
	1402	0	LYS	901	2.877	37.670	24.177
20	1403	N	GLU	902	2.798	39.726	25.065
20	1404	CA	GLU	902	2.149	40.312	23.902
	1405	СВ	GLU	902	2.008	41.822	24.130
	1406	CG	GLU	902	0.593	42.462	24.051
25	1407	CD	GLU	902	-0.577	41.510	23.728
	1408	OE1	GLU	902	-0.991	40.733	24.621
	1409	OE2	GLU	902	-1.096	41.558	22.584
30	1410	С	GLU	902	3.039	40.011	22.669
	1411	0	GLU	902	2.537	39.667	21.596
	1412	N	LEU	903	4.362	40.131	22.845
	1413	CA	LEU	903	5.363	39.873	21.792
35	1414	СВ	LEU	903	6.793	40.172	22.297
	1415	CG	LEU	903	7.966	39.883	21.341
	1416	CD1	LEU	903	7.870	40.820	20.160
40	1417	CD2	LEU	903	9.317	40.065	22.031
	1418	С	LEU	903	5.302	38.420	21.334
	1419	0	LEU	903	5.470	38.121	20.154
	1420	N	ARG	904	5.081	37.516	22.276
45	1421	CA	ARG	904	4.987	36.115	21.925
	1422	С	ARG	904	3.726	35.913	21.116
	1423	0	ARG	904	3.677	35.090	20.209
50	1424	СВ	ARG	904	4.966	35.268	23.229
	1425	CG	ARG	904	5.012	33.727	23.027
	1426	CD	ARG	904	4.952	32.966	24.363
	1427	NE	ARG	904	5.000	31.497	24.107
55	1428	CZ	ARG	904	4.968	30.552	25.043
	1429	NH1	ARG	904	5.024	29.314	24.667

	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Υ	Z
	1430	NH2	ARG	904	4.882	30.803	26.319
_	1431	N	LYS	905	2.694	36.677	21.447
	1432	CA	LYS	905	1.443	36.573	20.714
_	1433	СВ	LYS	905	0.381	37.420	21.376
	1434	CG	LYS	905	-0.197	36.796	22.603
	1435	CD	LYS	905	-1.091	37.799	23.250
_	1436	CE	LYS	905	-2.163	37.147	24.059
	1437	NZ	LYS	905	-3.222	38.155	24.471
	1438	С	LYS	905	1.650	37.048	19.291
-	1439	0	LYS	905	1.153	36.432	18.342
┝	1440	N	MET	906	2.383	38.151	19.153
_	1441	CA	MET	906	2.678	38.711	17.851
-	1442	СВ	MET	906	3.582	39.912	18.000
_	1443	С	MET	906	3.358	37.635	17.025
H	1444	0	MET	906	2.876	37.279	15.958
H	1445	CG	MET	906	2.996	41.101	18.79
-	1446	SD	MET	906	4.072	42.535	18.62
-	1447	CE	MET	906	3.361	43.556	19.91
\vdash	1448	N	VAL	907	4.476	37.114	17.539
卜	1449	CA	VAL	907	5.262	36.053	16.88
r	1450	СВ	VAL	907	6.249	35.411	17.90
	1451	С	VAL	907	4.369	34.951	16.31
r	1452	0	VAL	907	4.371	34.664	15.112
r	1453	CG1	VAL	907	7.338	36.382	18.41
r	1454	CG2	VAL	907	7.019	34.152	17.41
r	1455	N	THR	908	3.616	34.336	17.20
	1456	CA	THR	908	2.694	33.268	16.88
r	1457	СВ	THR	908	1.867	32.900	18.11
r	1458	С	THR	908	1.735	33.600	15.73
ľ	1459	0	THR	908	1.647	32.855	14.76
r	1460	OG1	THR	908	2.713	32.433	19.16
	1461	CG2	THR	908	0.822	31.778	17.93
	1462	N	LYS	909	1.004	34.701	15.87
	1463	CA	LYS	909	0.033	35.157	14.87
r	1464	СВ	LYS	909	-0.430	36.583	15.25

TABLE 11 (continued)

	THREE-DIMENSIONAL COORDINATES OF MR OBTAINED FROM HOMOLOGY MODELING OF THE CRYSTAL STRUCTURE COORDINATES OF GRa IN COMPLEX WITH FP									
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	×	Υ	Z			
	1466	CD	LYS	909	-2.258	38.400	15.341			
	1467	CE	LYS	909	-3.726	38.753	14.996			
10	1468	NZ	LYS	909	-4.024	40.246	15.095			
10	1469	С	LYS	909	0.691	35.136	13.480			
	1470	0	LYS	909	0.116	34.647	12.495			
	1471	N	CYS	910	1.915	35.660	13.446			
15	1472	CA	CYS	910	2.776	35.795	12.272			
	1473	СВ	CYS	910	4.202	36.113	12.754			
	1474	С	CYS	910	2.826	34.582	11.379			
20	1475	0	CYS	910	2.789	34.651	10.145			
	1476	SG	CYS	910	5.286	36.472	11.353			
	1477	N	PRO	911	2.903	33.447	12.024			
	1478	CA	PRO	911	3.037	32.243	11.278			
25	1479	СВ	PRO	911	4.386	31.672	11.628			
	1480	С	PRO	911	1.964	31.280	11.628			
	1481	0	PRO	911	1.200	31.466	12.578			
30	1482	CG	PRO	911	4.509	32.104	13.099			
	1483	CD	PRO	911	3.955	33.532	13.103			
	1484	N	ASN	912	1.895	30.246	10.817			
	1485	CA	ASN	912	0.954	29.196	11.077			
35	1486	С	ASN	912	1.861	28.138	11.671			
	1487	0	ASN	912	1.440	27.332	12.495			
	1488	СВ	ASN	912	0.341	28.704	9.733			
40	1489	CG	ASN	912	-0.357	29.755	8.863			
	1490	OD1	ASN	912	0.187	30.262	7.893			
	1491	ND2	ASN	912	-1.563	30.137	9.183			
	1492	N	ASN	913	3.134	28.197	11.271			
45	1493	CA	ASN	913	4.193	27.258	11.668			
	1494	СВ	ASN	913	5.251	27.272	10.578			
	1495	CG	ASN	913	5.578	28.679	10.136			
50	1496	OD1	ASN	913	5.923	29.526	10.956			
	1497	ND2	ASN	913	5.420	28.980	8.768			
	1498	С	ASN	913	4.881	27.454	13.028			
	1499	0	ASN	913	5.908	28.132	13.127			
55	1500	N	SER	914	4.332	26.802	14.050			
	1501	CA	SER	914	4.830	26.870	15.426			

TABLE 11 (continued)

	THREE-DIME	ENSIONAL COOF			OM HOMOLOGY		THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	1502	СВ	SER	914	3.756	26.337	16.382
	1503	OG	SER	914	2.498	26.998	16.259
40	1504	С	SER	914	6.140	26.111	15.661
10	1505	0	SER	914	6.533	25.861	16.805
	1506	N	GLY	915	6.809	25.755	14.570
	1507	CA	GLY	915	8.074	25.033	14.645
15	1508	С	GLY	915	9.212	25.966	15.088
	1509	0	GLY	915	10.036	25.590	15.933
	1510	N	GLN	916	9.250	27.176	14.526
20	1511	CA	GLN	916	10.278	28.152	14.888
20	1512	СВ	GLN	916	11.054	28.617	13.646
	1513	CG	GLN	916	12.152	27.631	13.218
	1514	CD	GLN	916	13.209	28.248	12.312
25	1515	OE1	GLN	916	14.225	27.615	12.008
	1516	NE2	GLN	916	12.971	29.540	11.787
	1517	С	GLN	916	9.721	29.356	15.658
30	1518	0	GLN	916	10.144	30.502	15.463
	1519	N	SER	917	8.766	29.074	16.541
	1520	CA	SER	917	8.176	30.109	17.363
	1521	СВ	SER	917	6.870	29.626	17.987
35	1522	С	SER	917	9.183	30.515	18.428
	1523	0	SER	917	9.504	31.695	18.551
	1524	OG	SER	917	7.069	28.618	18.985
40	1525	N	TRP	918	9.706	29.564	19.191
	1526	CA	TRP	918	10.703	29.976	20.171
	1527	СВ	TRP	918	11.036	28.870	21.173
	1528	CG	TRP	918	9.927	28.533	22.068
45	1529	CD2	TRP	918	9.500	29.264	23.223
	1530	CE2	TRP	918	8.375	28.589	23.743
	1531	CE3	TRP	918	9.997	30.377	23.915
50	1532	CD1	TRP	918	9.049	27.515	21.909
	1533	NE1	TRP	918	8.105	27.543	22.904
	1534	CZ2	TRP	918	7.679	29.048	24.864
	1535	CZ3	TRP	918	9.310	30.830	25.041
55	1536	CH2	TRP	918	8.179	30.144	25.521
	1537	С	TRP	918	11.992	30.412	19.490

TABLE 11 (continued)

	THREE-DIME				ROM HOMOLOGY	Y MODELING OF WITH FP	THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Υ	Z
	1538	0	TRP	918	12.819	31.066	20.124
	1539	N	GLN	919	12.196	30.066	18.225
10	1540	CA	GLN	919	13.434	30.506	17.602
10	1541	СВ	GLN	919	13.751	29.719	16.327
	1542	CG	GLN	919	15.178	29.976	15.774
	1543	CD	GLN	919	16.294	29.818	16.827
15	1544	OE1	GLN	919	16.925	30.802	17.240
	1545	NE2	GLN	919	16.541	28.501	17.267
	1546	С	GLN	919	13.363	31.996	17.296
20	1547	0	GLN	919	14.341	32.711	17.482
•	1548	N	ARG	920	12.196	32.462	16.855
	1549	CA	ARG	920	12.005	33.878	16.529
	1550	СВ	ARG	920	10.734	34.075	15.714
25	1551	CG	ARG	920	10.632	35.476	15.165
	1552	CD	ARG	920	9.499	35.588	14.195
	1553	NE	ARG	920	9.351	36.947	13.680
30	1554	CZ	ARG	920	10.163	37.510	12.794
	1555	NH1	ARG	920	11.233	36.851	12.254
	1556	NH2	ARG	920	9.894	38.785	12.424
	1557	С	ARG	920	11.937	34.762	17.765
35	1558	0	ARG	920	12.311	35.938	17.723
	1559	N	PHE	921	11.434	34.203	18.855
	1560	CA	PHE	921	11.348	34.951	20.092
40	1561	СВ	PHE	921	10.608	34.150	21.146
	1562	CG	PHE	921	10.407	34.891	22.422
	1563	CD1	PHE	921	9.321	35.745	22.576
	1564	CD2	PHE	921	11.319	34.774	23.458
45	1565	CE1	PHE	921	9.140	36.456	23.747
	1566	CE2	PHE	921	11.152	35.483	24.639
	1567	CZ	PHE	921	10.062	36.330	24.784
50	1568	С	PHE	921	12.770	35.210	20.568
	1569	0	PHE	921	13.050	36.218	21.215
	1570	N	TYR	922	13.662	34.277	20.237
	1571	CA	TYR	922	15.065	34.379	20.609
55	1572	СВ	TYR	922	15.769	33.040	20.370
	1573	CG	TYR	922	17.233	33.089	20.718

ŀ				INATES OF GRO		Y	z
	MOTA	ATOM TYPE	RESIDUE	RESIDUE #	X		
	1574	CD1	TYR	922	17.649	33.208	22.045
	1575	CE1	TYR	922	18.990	33.371	22.367
	1576	CD2	TYR	922	18.200	33.117	19.719
	1577	CE2	TYR	922	19.542	33.282	20.028
	1578	CZ	TYR	922	19.930	33.410	21.353
	1579	ОН	TYR	922	21.264	33.555	21.664
ı	1580	С	TYR	922	15.769	35.471	19.806
Ì	1581	0	TYR	922	16.503	36.284	20.368
Ì	1582	N	GLN	923	15.547	35.472	18.494
	1583	CA	GLN	923	16.146	36.468	17.608
	1584	СВ	GLN	923	15.770	36.199	16.141
	1585	CG	GLN	923	16.408	34.952	15.508
	1586	CD	GLN	923	15.943	34.684	14.065
	1587	OE1	GLN	923	14.740	34.616	13.775
	1588	NE2	GLN	923	16.959	34.451	13.110
	1589	С	GLN	923	15.639	37.849	18.011
	1590	0	GLN	923	16.413	38.766	18.286
	1591	N	LEU	924	14.322	37.996	18.060
	1592	CA	LEU	924	13.753	39.275	18.415
	1593	СВ	LEU	924	12.239	39.179	18.452
	1594	CG	LEU	924	11.639	38.894	17.090
	1595	CD1	LEU	924	10.143	38.920	17.222
	1596	CD2	LEU	924	12.105	39.929	16.088
	1597	c	LEU	924	14.234	39.874	19.721
	1598	0	LEU	924	14.514	41.064	19.777
	1599	N	THR	925	14.326	39.063	20.771
	1600	CA	THR	925	14.746	39.581	22.071
	1601	СВ	THR	925	14.343	38.610	23.184
	1602	OG1	THR	925	14.997	37.365	23.094
	1603	CG2	THR	925	12.846	38.297	23.091
	1604	С	THR	925	16.252	39.851	22.121
	1605	0	THR	925	16.738	40.653	22.938
	1606	N	LYS	926	16.966	39.170	21.224
	1607	CA	LYS	926	18.408	39.302	21.059
	1608	СВ	LYS	926	18.884	38.210	20.087
	1609	CG	LYS	926	20.327	37.729	20.247

TABLE 11 (continued)

	THREE-DIME	NSIONAL COOF			ROM HOMOLOGY		THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	х	Y	Z
	1610	CD	LYS	926	20.583	37.132	21.640
	• 1611	CE	LYS	926	21.660	37.911	22.436
10	1612	NZ	LYS ·	926	21.351	39.365	22.780
10	1613	С	LYS	926	18.601	40.715	20.459
	1614	0	LYS	926	19.507	41.464	20.846
	1615	N	LEU	927	17.717	41.077	19.525
15	1616	CA	LEU	· 927	17.748	42.395	18.889
	1617	СВ	LEU	927	16.650	42.521	17.825
	1618	CG	LEU	927	16.952	43.492	16.671
20	1619	CD1	LEU	927	15.672	43.904	15.970
20	1620	CD2	LEU	927	17.674	44.711	17.194
	1621	С	LEU	927	17.501	43.451	19.959
	1622	0	LEU	927	18.214	44.445	20.041
25	1623	N	LEU	928	16.460	43.234	20.759
	1624	CA	LEU	928	16.108	44.154	21.828
	1625	СВ	LEU	928	15.010	43.560	22.699
30	1626	CG	LEU	928	13.624	43.652	22.083
	1627	CD1	LEU	928	12.611 1	43.023	22.996
	1628	CD2	LEU	928	13.294	45.105	21.840
	1629	С	LEU	928	17.312	44.432	22.686
35	1630	0	LEU	928	17.554	45.576	23.080
	1631	N	ASP	929	18.061	43.370	22.975
	1632	CA	ASP	929	19.268	43.466	23.789
40	1633	СВ	ASP	929	19.844	42.076	24.061
	1634	CG	ASP	929	19.233	41.406	25.276
	1635	OD1	ASP	929	18.373	42.017	25.955
	1636	OD2	ASP	929	19.631	40.251	25.555
45	1637	С	ASP	929	20.338	44.318	23.110
	1638	0	ASP	929	20.934	45.189	23.739
	1639	N	SER	930	20.588	44.068	21.833
50	1640	CA	SER	930	21.606	44.841	21.147
	1641	СВ	SER	930	21.860	44.274	19.748
	1642	OG	SER	930	20.780	44.324	18.832
	1643	С	SER	930	21.253	46.324	21.059
<i>55</i>	1644	0	SER	930	22.043	47.121	20.568
	1645	N	MET	931	20.067	46.710	21.527

TABLE 11 (continued)

	THREE-DIME	NSIONAL COOR STRU	DINATES OF M	R OBTAINED FRO	OM HOMOLOGY IN COMPLEX V	MODELING OF VITH FP	THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	1646	CA	MET	931	19.704	48.121	21.477
ŀ	1647	СВ	MET	931	18.200	48.329	21.657
	1648	CG	MET	931	17.349	47.940	20.468
10	1649	SD	MET	931	17.684	48.878	18.960
	1650	CE	MET	931	17.557	50.532	19.494
	1651	С	MET	931	20.439	48.873	22.571
15	1652	0	MET	931	20.633	50.084	22.468
	1653	N	HIS	932	20.836	48.177	23.632
	1654	CA	HIS	932	21.571	48.865	24.678
	1655	СВ	HIS	932	21.769	47.988	25.927
20	1656	CG	HIS	932	20.521	47.749	26.732
	1657	CD2	HIS	932	19.798	46.617	26.920
	1658	ND1	HIS	932	19.934	48.714	27.513
25	1659	CE1	HIS	932	18.898	48.190	28.159
	1660	NE2	HIS	932	18.798	46.923	27.815
	1661	С	HIS	932	22.927	49.210	24.064
00	1662	0	HIS	932	23.499	50.242	24.386
30	1663	N	ASP	933	23.438	48.363	23.168
	1664	CA	ASP	933	24.730	48.640	22.525
	1665	СВ	ASP	933	25.262	47.385	21.776
35	1666	С	ASP	933	24.619	49.831	21.578
	1667	0	ASP	933	25.430	50.750	21.640
	1668	CG	ASP	933	26.686	47.474	21.207
40	1669	OD1	ASP	933	26.999	47.013	20.119
40	1670	OD2	ASP	933	27.547	48.139	22.035
	1671	N	LEU	934	23.613	49.857	20.716
	1672	CA	LEU	934	23.537	50.986	19.807
45	1673	СВ	LEU	934	22.477	50.754	18.709
	1674	С	LEU	934	23.149	52.278	20.522
	1675	0	LEU	934	23.643	53.348	20.158
50	1676	CG	LEU	934	22.732	49.537	17.784
	1677	CD1	LEU	934	21.508	49.360	16.873
	1678	CD2	LEU	934	24.040	49.676	16.975
	1679	N	VAL	935	22.288	52.203	21.533
55	1680	CA	VAL	935	21.926	53.425	22.243
	1681	СВ	VAL	935	20.942	53.176	23.392

TABLE 11 (continued)

	THREE-DIME	ENSIONAL COOF		R OBTAINED FR			THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	1682	CG1	VAL	935	20.838	54.420	24.251
	1683	CG2	VAL	935	19.578	52.840	22.834
10	1684	С	VAL	935	23.198	54.025	22.820
10	1685	0	VAL	935	23.482	55.204	22.626
	1686	N	SER	936	23.964	53.210	23.530
	1687	CA	SER	936	25.213	53.684	24.096
15	1688	СВ	SER	936	26.126	52.532	24.592
	1689	С	SER	936	25.962	54.526	23.037
	1690	0	SER	936	26.249	55.702	23.270
20	1691	OG	SER	936	27.299	53.007	25.241
20	1692	N	ASP	937	26.245	53.942	21.872
	1693	CA	ASP	937	26.940	54.653	20.786
	1694	СВ	ASP	937	27.064	53.786	19.544
25	1695	CG	ASP	937	28.095	52.733	19.691
	1696	OD1	ASP	937	29.205	53.001	20.143
	1697	С	ASP	937	26.250	55.917	20.337
30	1698	0	ASP	937	26.897	56.926	20.066
	1699	OD2	ASP	937	27.576	51.470	19.631
	1700	N	LEU	938	24.939	55.841	20.209
	1701	CA	LEU	938	24.194	56.994	19.767
35	1702	СВ	LEU	938	22.745	56.613	19.505
	1703	CG	LEU	938	22.526	55.761	18.258
	1704	CD1	LEU	938	21.053	55.804	17.907
40	1705	CD2	LEU	938	23.359	56.294	17.101
	1706	С	LEU	938	24.278	58.136	20.765
	1707	0	LEU	938	24.502	59.281	20.380
	1708	N	LEU	939	24.128	57.811	22.048
45	1709	CA	LEU	939	24.149	58.797	23.131
	1710	СВ	LEU	939	23.652	58.115	24.413
	1711	CG	LEU	939	22.540	58.624	25.350
50	1712	CD1	LEU	939	21.445	59.418	24.648
	1713	CD2	LEU	939	21.956	57.384	26.015
	1714	С	LEU	939	25.495	59.512	23.375
	1715	0	LEU	939	25.512	60.736	23.544
55	1716	N	GLU	940	26.613	58.777	23.399
	1717	CA	GLU	940	27.930	59.403	23.627

TABLE 11 (continued)

	TUDEE DIMEN	ICIONAL COOR		BLE 11 (continu	OM HOMOLOGY	MODELING OF	THE CRYSTAL
	THREE-DIMER	NSIONAL COOK STRU	CTURE COORD	INATES OF GRO	IN COMPLEX W	VIINTE	
;	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	X	Y	Z
	1718	СВ	GLU	940	29.094	58.382	23.486
	1719	С	GLU	940	28.154	60.548	22.659
	1720	0	GLU	940	28.576	61.643	23.029
)	1721	CG	GLU	940	30.519	58.995	23.561
	1722	CD	GLU	940	30.834	59.804	24.872
	1723	OE1	GLU	940	30.234	59.461	25.896
5	1724	OE2	GLU	940	31.666	60.706	24.729
	1725	N	PHE	941	27.880	60.238	21.398
	1726	CA	PHE	941	28.004	61.147	20.273
20	1727	СВ	PHE	941	27.702	60.368	19.001
0	1728	CG	PHE	941	28.400	60.835	17.757
	1729	CD1	PHE	941	28.546	62.194	17.467
	1730	CE1	PHE	941	29.203	62.614	16.306
25	1731	CD2	PHE	941	28.923	59.900	16.866
	1732	CE2	PHE	941	29.578	60.293	15.710
	1733	CZ	PHE	941	29.716	61.652	15.428
	1734	С	PHE	941	26.980	62.268	20.405
30	1735	0	PHE	941	27.032	63.260	19.681
	1736	N	CYS	942	26.029	62.091	21.313
	1737	CA	CYS	942	24.983	63.082	21.515
35	1738	CB	CYS	942	23.667	62.395	21.861
	1739	SG	CYS	942	22.249	63.518	22.095
	1740	C	CYS	942	25.364	64.028	22.630
	1741	0	CYS	942	25.093	65.227	22.560
40	1741	N	PHE	943	25.975	63.457	23.665
	1742	CA	PHE	943	26.444	64.211	24.817
	1743	СВ	PHE	943	26.870	63.257	25.950
45	1744	CG	PHE	943	25.725	62.493	26.600
		CD1	PHE	943	24.403	62.897	26.446
	1746	CD2	PHE	943	25.992	61.399	27.431
	1747	CE1	PHE	943	23.356	62.227	27.103
50	1748	CE2	PHE	943	24.953	60.720	28.094
	1749	CZ	PHE	943	23.635	61.137	27.930
	1750	C	PHE	943	27.657	65.018	24.331
55	1751		PHE	943	27.739	66.230	24.546
	1752	0		944	28.580	64.328	23.661
	1753	N	TYR				

	THREE-DIME	ENSIONAL COOF		R OBTAINED FR			THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Υ	Z
	1754	CA	TYR	944	29.792	64.947	23.117
	1755	СВ	TYR	944	30.614	64.019	22.183
	1756	С	TYR	944	29.352	66.200	22.336
10	1757	0	TYR	944	29.713	67.316	22.712
	1758	CG	TYR	944	31.628	64.830	21.403
	1759	CD1	TYR	944	32.695	65.534	22.068
15	1760	CD2	TYR	944	31.503	64.959	19.972
	1761	CE1	TYR	944	33.605	66.358	21.317
	1762	CE2	TYR	944	32.419	65.780	19.229
20	1763	CZ	TYR	944	33.480	66.497	19.889
20	1764	ОН	TYR	944	34.350	67.294	19.176
	1765	N	THR	945	28.287	66.230	21.337
	1766	CA	THR	945	27.800	67.322	20.501
25	1767	С	THR	945	27.089	68.377	21.331
	1768	0	THR	945	27.152	69.566	21.020
	1769	СВ	THR	945	26.837	66.791	19.405
30	1770	OG1	THR	945	27.460	65.817	18.573
	1771	CG2	THR	945	26.356	67.912	18.511
	1772	N	PHE	946	26.423	67.928	22.391
	1773	CA	PHE	946	25.684	68.805	23.294
35	1774	С	PHE	946	26.683	69.701	24.034
	1775	0	PHE	946	26.466	70.902	24.160
	1776	СВ	PHE	946	24.899	67.961	24.302
40	1777	CG	PHE	946	24.055	68.766	25.255
	1778	CD1	PHE	946	22.905	69.411	24.823
	1779	CD2	PHE	946	24.442	68.901	26.584
	1780	CE1	PHE	946	22.143	70.187	25.697
45	1781	CE2	PHE	946	23.690	69.673	27.468
	1782	CZ	PHE	946	22.537	70.319	27.025
	1783	N	ARG	947	27.770	69.110	24.527
50	1784	CA	ARG	947	28.799	69.887	25.225
Ì	1785	С	ARG	947	29.519	70.858	24.274
	1786	0	ARG	947	29.941	71.947	24.678
	1787	СВ	ARG	947	29.802	68.926	25.920
55	1788	CG	ARG	947	30.861	69.622	26.815
	1789	CD	ARG	947	31.844	68.628	27.446

TABLE 11 (continued)

H	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
F	1790	NE NE	ARG	947	32.810	69.389	28.278
F	1791	CZ	ARG	947	33.806	68.863	28.977
ŀ	1792	NH1	ARG	947	34.078	67.592	29.025
\vdash	1793	NH2	ARG	947	34.549	69.668	29.650
-	1794	N	GLU	948	29.648	70.476	23.005
H	1795	CA	GLU	948	30.336	71.328	22.034
\vdash	1796	С	GLU	948	29.348	72.084	21.156
\vdash	1797	0	GLU	948	29.743	72.682	20.152
\vdash	1798	СВ	GLU	948	31.277	70.432	21.180
H	1799	CG	GLU	948	32.464	69.730	21.920
\mid	1800	CD	GLU	948	33.610	70.599	22.443
ŀ	1801	OE1	GLU	948	33.987	71.616	21.876
}	1802	OE2	GLU	948	34.168	70.135	23.595
-	1803	N	SER	949	28.070	72.071	21.533
\mathbf{l}	1804	CA	SER	949	27.034	72.719	20.729
ŀ	1805	C	SER	949	27.350	74.132	20.238
}	1806	0	SER	949	27.131	74.442	19.071
-	1807	СВ	SER	949	25.690	72.711	21.471
ŀ	1808	OG	SER	949	25.673	73.463	22.684
ŀ	1809	N	HIS	950	27.863	74.996	21.105
ŀ	1810	CA	HIS	950	28.165	76.351	20.660
ŀ	1811	С	HIS	950	29.304	76.341	19.648
ŀ	1812	0	HIS	950	29.279	77.087	18.665
Ì	1813	СВ	HIS	950	28.515	77.260	21.850
Ì	1814	CG	HIS	950	27.466	77.222	22.923
ł	1815	ND1	HIS	950	26.098	77.400	22.732
1	1816	CE1	HIS	950	25.669	77.261	24.001
Ì	1817	NE2	HIS	950	26.596	77.025	24.969
	1818	CD2	HIS	950	27.768	76.999	24.259
	1819	N	ALA	951	30.284	75.470	19.863
	1820	CA	ALA	951	31.426	75.374	18.965
	1821	С	ALA	951	31.055	74.760	17.623
	1822	0	ALA	951	31.589	75.140	16.583
	1823	СВ	ALA	951	32.532	74.549	19.617
	1824	N	LEU	952	30.135	73.806	17.654

TABLE 11 (continued)

	THREE-DIMENSIONAL COORDINATES OF MR OBTAINED FROM HOMOLOGY MODELING OF THE CRYSTAL STRUCTURE COORDINATES OF GRa IN COMPLEX WITH FP									
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z			
	1826	С	LEU	952	28.543	73.820	15.762			
	1827	0	LEU	952	28.123	73.419	14.680			
40	1828	СВ	LEU	952	29.305	71.683	16.797			
10	1829	CG	LEU	952	30.429	70.781	17.301			
	1830	CD1	LEU	952	29.852	69.453	17.772			
	1831	CD2	LEU	952	31.442	70.567	16.184			
15	1832	N	LYS	953	28.044	74.878	16.387			
	1833	CA	LYS	953	26.919	75.618	15.851			
	1834	С	LYS	953	25.688	74.721	15.769			
20	1835	0	LYS	953	24.879	74.855	14.856			
	1836	СВ	LYS	953	27.275	76.202	14.455			
	1837	CG	LYS	953	28.396	77.270	14.502			
	1838	CD	LYS	953	28.727	77.915	13.154			
25	1839	CE	LYS	953	29.796	78.997	13.360			
	1840	NZ	LYS	953	30.242	79.500	12.048			
	1841	N	VAL	954	25.548	73.805	16.726			
30	1842	CA	VAL	954	24.396	72.901	16.749			
	1843	С	VAL	954	23.448	73.310	17.879			
	1844	0	VAL	954	23.850	73.383	19.035			
	1845	СВ	VAL	954	24.841	71.440	16.958			
35	1846	CG1	VAL	954	23.611	70.519	17.045			
	1847	CG2	VAL	954	25.752	71.000	15.796			
	1848	N	GLU	955	22.197	73.600	17.536			
40	1849	CA	GLU	955	21.214	73.984	18.537			
	1850	С	GLU	955	20.405	72.802	19.068			
	1851	0	GLU	955	19.952	71.973	18.288			
	1852	СВ	GLU	955	20.238	75.010	17.965			
45	1853	CG	GLU	955	19.118	75.361	18.944			
	1854	CD	GLU	955	18.123	76.367	18.393			
	1855	OE1	GLU	955	18.298	76.824	17.240			
50	1856	OE2	GLU	955	17.160	76.703	19.123			
	1857	N	PHE	956	20.094	72.231	20.212			
	1858	CA	PHE	956	19.219	71.221	20.770			
	1859	СВ	PHE	956	19.929	70.498	21.911			
55	1860	CG	PHE	956	20.927	69.468	21.447			
	1861	CD1	PHE	956	22.196	69.830	20.999			

TABLE 11 (continued)

	THREE-DIME			R OBTAINED FR		Y MODELING OF WITH FP	THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	1862	CD2	PHE	956	20.607	68.119	21.520
	1863	CE1	PHE	956	23.121	68.857	20.622
10	1864	CE2	PHE	956	21.518	67.143	21.149
10	1865	CZ	PHE	956	22.780	67.511	20.716
	1866	С	PHE	956	17.952	71.918	21.259
	1867	0	PHE	956	18.024	72.911	21.981
15	1868	N	PRO	957	16.764	71.402	20.888
	1869	CD	PRO	957	16.416	70.032	20.472
	1870	CA	PRO	957	15.575	72.103	21.362
20	1871	СВ	PRO	957	14.447	71.365	20.659
20	1872	CG	PRO	957	14.903	69.963	20.757
	1873	С	PRO	957	15.475	72.040	22.880
	1874	0	PRO	957	16.409	71.607	23.553
25	1875	N	ALA	958	14.331	72.467	23.410
	1876	CA	ALA	958	14.097	72.501	24.852
	1877	СВ	ALA	958	12.877	73.367	25.145
30	1878	С	ALA	958	13.909	71.138	25.508
	1879	0	ALA	958	14.633	70.777	26.439
	1880	N	MET	959	12.912	70.398	25.039
	1881	CA	MET	959	12.643	69.079	25.575
35	1882	СВ	MET	959	11.709	68.321	24.623
	1883	CG	MET	959	11.377	66.927	25.090
	1884	SD	MET	959	10.899	66.977	26.813
40	1885	CE	MET	959	9.291	67.636	26.628
	1886	С	MET	959	13.970	68.335	25.741
	1887	0	MET	959	14.433	68.125	26.862
	1888	N	LEU	960	14.579	67.968	24.613
45	1889	CA	LEU	960	15.864	67.258	24.563
	1890	СВ	LEU	960	16.367	67.174	23.116
	1891	CG	LEU	960	16.274	65.922	22.248
50	1892	CD1	LEU	960	14.839	65.532	21.975
	1893	CD2	LEU	960	16.973	66.214	20.943
	1894	С	LEU	960	16.935	67.952	25.394
	1895	0	LEU	960	17.790	67.299	26.003
55	1896	N	VAL	961	16.902	69.276	25.378
	1897	CA	VAL	961	17.856	70.091	26.120

	THREE-DIME		RDINATES OF M	IR OBTAINED FR	OM HOMOLOG		THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	z
	1898	СВ	VAL	961	17.706	71.666	26.224
	1899	С	VAL	961	17.957	69.563	27.547
10	1900	0	VAL	961	19.039	69.199	28.011
70	1901	CG1	VAL	961	18.703	72.407	25.295
	1902	CG2	VAL	961	17.886	72.321	27.621
	1903	N	GLU	962	16.806	69.518	28.210
15	1904	CA	GLU	962	16.651	69.055	29.593
	1905	СВ	GLU	962	15.206	69.219	30.010
	1906	CG	GLU	962	14.904	70.411	30.842
20	1907	CD	GLU	962	13.434	70.465	31.145
	1908	OE1	GLU	962	12.721	69.520	30.737
	1909	OE2	GLU	962	12.990	71.440	31.785
	1910	С	GLU	962	17.019	67.610	29.895
25	1911	0	GLU	962	17.672	67.319	30.900
	1912	N	ILE	963	16.530	66.715	29.043
	1913	CA	ILE	963	16.735	65.276	29.160
30	1914	СВ	ILE	963	15.854	64.552	28.143
	1915	CG2	ILE	963	15.968	63.057	28.308
	1916	CG1	ILE	963	14.407	64.986	28.335
	1917	CD1	ILE	963	13.573	64.754	27.120
35	1918	С	ILE	963	18.189	64.865	28.960
	1919	0	ILE	963	18.644	63.878	29.547
	1920	N	ILE	964	18.914	65.604	28.115
40	1921	CA	ILE	964	20.324	65.308	27.887
	1922	СВ	ILE	964	20.867	65.955	26.563
	1923	CG2	ILE	964	22.384	65.814	26.499
	1924	CG1	ILE	964	20.292	65.222	25.339
45	1925	CD1	ILE	964	20.013	66.096	24.116
	1926	С	ILE	964	21.097	65.825	29.105
	1927	0	ILE	964	21.970	65.128	29.622
50	1928	N	SER	965	20.757	67.031	29.570
	1929	CA	SER	965	21.391	67.626	30.757
	1930	СВ	SER	965	20.865	69.070	31.026
[1931	С	SER	965	21.061	66.760	31.975
55	1932	0	SER	965	21.902	66.526	32.844
	1933	OG	SER	965	19.502	69.092	31.464

TABLE 11 (continued)

- [INATES OF GRO		Y	Z
	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	X	66.295	32.019
Γ	1934	N	ASP	966	19.818		33.081
	1935	CA	ASP	966	19.303	65.434	32.699
.	1936	СВ	ASP	966	17.883	64.988	33.760
9	1937	CG	ASP	966	17.209	64.126	34.230
	1938	OD1	ASP	966	17.765	63.130	33,212
Ī	1939	С	ASP	966	20.211	64.210	34.184
5	1940	0	ASP	966	20.949	64.053	34.317
	1941	OD2	ASP	966	16.115	64.728	
	1942	N	GLN	967	20.139	63.372	32.187
.	1943	CA	GLN	967	20.858	62.106	32.055
20	1944	СВ	GLN	967	20.407	61.462	30.754
	1945	CG	GLN	967	18.958	61.134	30.781
	1946	CD	GLN	967	18.665	60.195	31.918
25	1947	OE1	GLN	967	18.006	60.557	32.892
	1948	NE2	GLN	967	19.196	58.911	31.958
	1949	С	GLN	967			32.087
	1950	0	GLN	967	22.987	61.168	32.664
30	1951	N	LEU	968	22.965	63.066	31.431
	1952	CA	LEU	968	24.404	63.194	31.282
	1953	СВ	LEU	968	24.767	64.662	30.896
35	1954	С	LEU	968	25.260	62.800	32.495
	1955	0	LEU	968	26.306	62.165	32.333
	1956	CG	LEU	968	26.255	65.071	30.998
	1957	CD1	LEU	968	27.125	64.301	29.982
40	1958	CD2	LEU	968	26.401	66.600	30.833
	1959	N	PRO	969	24.827	63.139	33.720
	1960	CD	PRO	969	23.761	64.056	34.147
45	1961	CA	PRO	969	25.651	62.756	34.869
	1962	СВ	PRO	969	25.002	63.513	36.025
	1963	CG	PRO	969	24.385	64.700	35.350
	1964	C	PRO	969	25.669	61.252	35.114
50	1965	0	PRO	969	26.724	60.620	35.093
	1966	N	LYS	970	24.489	60.678	35.323
	1967	CA	LYS	970	24.382	59.253	35.612
55	1967	СВ	LYS	970	23.093	58.967	36.395
	1969	CG	LYS	970	21.918	58.557	35.516

	THREE-DIME			R OBTAINED FR		Y MODELING OF WITH FP	THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	1970	CD	LYS	970	20.970	59.705	35.241
	1971	CE	LYS	970	19.993	59.845	36.399
10	1972	NZ	LYS	970	18.955	60.941	36.202
10	1973	С	LYS	970	24.465	58.260	34.443
	1974	0	LYS	970	24.428	57.052	34.683
	1975	N	VAL	971	24.557	58.730	33.195
15	1976	CA	VAL	971	24.646	57.790	32.064
	1977	СВ	VAL	971	24.076	58.386	30.763
	1978	С	VAL	971	26.088	57.388	31.819
20	1979	0	VAL	971	26.434	56.940	30.727
	1980	CG1	VAL	971	22.556 .	58.673	30.818
	1981	CG2	VAL	971	24.289	57.551	29.471
	1982	N	GLU	972	26.913	57.538	32.852
25	1983	CA	GLU	972	28.335	57.225	32.772
	1984	СВ	GLU	972	29.130	58.508	32.516
	1985	С	GLU	972	28.875	56.589	34.050
30	1986	0	GLU	972	29.789	55.764	34.002
	1987	CG	GLU	972	29.130	59.589	33.646
	1988	CD	GLU	972	29.832	60.922	33.377
	1989	OE1	GLU	972	29.856	61.838	34.188
35	1990	OE2	GLU	972	30.426	60.991	32.153
	1991	N	SER	973	28.308	56.988	35.189
	1992	CA	SER	973	28.731	56.522	36.514
40	1993	СВ	SER	973	28.038	57.356	37.602
	1994	С	SER	973	28.536	55.048	36.864
	1995	0	SER	973	29.487	54.346	37.233
	1996	OG	SER	973	28.513	58.706	37.656
45	1997	N	GLY	974	27.293	54.593	36.770
	1998	CA	GLY	974	26.947	53.226	37.110
	1999	С	GLY	974	25.688	53.370	37.941
50	2000	0	GLY	974	25.613	52.946	39.095
	2001	N	ASN	975	24.696	53.998	37.334
	2002	CA	ASN	975	23.438	54.253	38.004
	2003	СВ	ASN	975	23.152	55.769	37.918
55	2004	CG	ASN	975	24.345	56.632	38.410
	2005 OD1		ASN	975	25.508	56.343	38.100

TABLE 11 (continued)

	THREE-DIME	NSIONAL COOR STRUG	DINATES OF M	R OBTAINED FR	OM HOMOLOGY	MODELING OF WITH FP	THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	2006	ND2	ASN	975	24.052	57.602	39.400
	2007	С	ASN	975	22.307	53.415	37.380
	2008	0	ASN	975	21.467	52.864	38.093
10	2009	N	ALA	976	22.343	53.284	36.050
	2010	CA	ALA	976	21.348	52.557	35.245
	2011	СВ	ALA	976	21.235	53.216	33.853
15	2012	С	ALA	976	21.560	51.042	35.030
	2013	0	ALA	976	22.631	50.601	34.612
	2014	N	LYS	977	20.512	50.260	35.283
	2015	CA	LYS	977	20.559	48.811	35.128
20	2016	СВ	LYS	977	19.815	48.166	36.285
	2017	CG	LYS	977	19.808	46.674	36.278
	2018	CD	LYS	977	18.743	46.214	37.234
25	2019	CE	LYS	977	18.641	44.708	37.259
	2020	NZ	LYS	977	17.452	44.172	38.042
	2021	С	LYS	977	19.920	48.379	33.808
30	2022	0	LYS	977	18.698	48.379	33.665
30	2023	N	PRO	978	20.759	47.994	32.857
	2024	CA	PRO	978	20.302	47.585	31.535
	2025	СВ	PRO	978	21.489	47.759	30.556
35	2026	С	PRO	978	19.723	46.150	31.515
	2027	0	PRO	978	20.467	45.190	31.365
	2028	CG	PRO	978	22.674	47.424	31.477
40	2029	CD	PRO	978	22.310	48.109	32.798
40	2030	N	LEU	979	18.404	46.005	31.678
	2031	CA	LEU	979	17.752	44.683	31.668
	2032	СВ	LEU	979	16.226	44.819	31.756
45	2033	CG	LEU	979	15.695	45.767	32.823
	2034	CD1	LEU	979	14.170	45.795	32.863
	2035	CD2	LEU	979	16.246	45.305	34.139
50	2036	С	LEU	979	18.084	43.939	30.374
	2037	0	LEU	979	18.209	44.559	29.320
	2038	N	TYR	980	18.217	42.619	30.438
	2039	CA	TYR	980	18.517	41.850	29.230
<i>55</i>	2040	СВ	TYR	980	19.994	41.458	29.180
	2041	С	TYR	980	17.684	40.579	29.171

	THREE-DIME	NSIONAL COOF		R OBTAINED FR			THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	X	Y	Z
	2042	0	TYR	980	17.437	39.953	30.199
	2043	CG	TYR	980	21.010	42.605	29.135
	2044	CD1	TYR	980	21.693	42.974	30.299
10	2045	CD2	TYR	980	21.256	43.294	27.943
	2046	CE1	TYR	980	22.606	44.024	30.272
	2047	CE2	TYR	980	22.170	44.344	27.920
15	2048	CZ	TYR	980	22.844	44.708	29.082
	2049	ОН	TYR	980	23.738	45.741	29.055
	2050	N	PHE	981	17.248	40.207	27.972
20	2051	CA	PHE	981	16.476	38.990	27.793
20	2052	СВ	PHE	981	15.719	39.019	26.466
	2053	CG	PHE	981	14.478	39.838	26.516
	2054	CD1	PHE	981	13.293	39.284	26.973
25	2055	CD2	PHE	981	14.525	41.204	26.255
	2056	CE1	PHE	981	12.168	40.081	27.180
•	2057	CE2	PHE	981	13.408	42.012	26.459
30	2058	CZ	PHE	981	12.228	41.449	26.927
-	2059	С	PHE	981	17.465	37.848	27.815
	2060	0	PHE	981	17.124	36.725	28.178
	2061	N	HIS	982	18.705	38.164	27.441
35	2062	CA	HIS	982	19.793	37.189	27.394
	2063	СВ	HIS	982	20.119	36.846	25.950
	2064	CG	HIS	982	18.928	36.424	25.171
40	2065	CD2	HIS	982	18.431	36.849	23.989
	2066	ND1	HIS	982	18.030	35.495	25.655
	2067	CE1	HIS	982	17.028	35.374	24.807
	2068	NE2	HIS	982	17.245	36.186	23.786
45	2069	С	HIS	982	21.054	37.669	28.067
	2070	0	HIS	982	21.554	38.757	27.770
	2071	N	ARG	983	21.586	36.847	28.961
50	2072	CA	ARG	983	22.811	37.196	29.655
	2073	СВ	ARG	983	22.886	36.464	31.006
	2074	CG	ARG	983	22.124	35.132	31.099
	2075	С	ARG	983	24.076	36.946	28.818
55	2076	0	ARG	983	24.800	37.896	28.521
	2077	CD	ARG	983	22.237	34.496	32.495

TABLE 11 (continued)

				RE II (COUNTY			
	THREE-DIME	NSIONAL COOR	DINATES OF MI	R OBTAINED FRO	OM HOMOLOGY	MODELING OF WITH FP	THE CRYSTAL
5	ATOM	ATOM TYPE	RESIDUE	RESIDUE #	Х	Y	Z
	2078	NE	ARG	983	21.504	33.197	32.517
	2079	CZ	ARG	983	21.405	32.388	33.567
	2080	NH1	ARG	983	20.738	31.285	33.433
10	2081	NH2	ARG	983	21.942	32.642	34.727
	2082	N	LYS	984	24.308	35.693	28.408
	2083	CA	LYS	984	25.503	35.276	27.631
15	2084	CB LYS		984	25.244	35.274	26.094
	2085	CG	LYS	984	26.211	34.352	25.247
	2086	CD	LYS	984	27.026	35.124	24.164
	2087	CE	LYS	984	27.905	34.230	23.243
20	2088	NZ	LYS	984	29.205	33.731	23.855
	2089	С	LYS	984	26.718	36.154	27.961
	2090	0	LYS	984	26.967	37.154	27.246
25	2091 OXT LYS 984				27.399	35.837	28.965
	2091		L	1	1	<u>, l</u>	

[0406] It will be understood that various details of the invention may be changed without departing from the scope of the invention. Furthermore, the foregoing description is for the purpose of illustration only, and not for the purpose of limitation the invention being defined by the claims.

SEQUENCE LISTING

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	Bledsoe, Randy K
	Montana, Valerie G.
10	Stewart, Eugene L.
	Lambert, Millard H.
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Claims

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- 1. A crystalline GR polypeptide complex comprising an expanded binding pocket.
- 2. The polypeptide complex of claim 1, wherein an AF2 helix is located in an active position, and where atoms in residues Met560, Met639, Gln642, Cys643, Met646, and Tyr735 have shifted from their positions in a GR/Dex structure, characterized by the atomic structural coordinates of Table 3, by one of a heavy-atom RMS deviation of at least about 0.50 angstroms and by a backbone heavy-atom RMS deviation of at least about 0.35 angstroms.
- 3. The polypeptide complex of claim 1, wherein an AF2 helix is located in an active position, and wherein atoms in residues Met560, Met639, Gln642, Cys643, Met646, and Tyr735 have shifted from their positions in a GR/Dex structure, characterized by the atomic structural coordinates of Table 3, so as to increase the volume of the main binding pocket by at least about 5%, compared with a GR/Dex structure characterized by the atomic structural coordinates of Table 3.
- 4. The polypeptide complex of claim 1, wherein an AF2 helix is located in an active position, and wherein atoms in and around a ligand binding site have shifted from their positions in a GR/Dex structure, **characterized by** the atomic structural coordinates of Table 3, so as to accommodate, without atomic overlap, a steroidal ligand with 17-α substituents comprising 2-20 atoms.
- 5. The polypeptide complex of claim 1, wherein an AF2 helix is located in an active position, and wherein atoms in and around a ligand binding site have shifted from their positions in a GR/Dex structure, **characterized by** the atomic coordinates of Table 3, so as to accommodate, without atomic overlap, a non-steroidal ligand.
- 6. The polypeptide complex of claim 5, wherein the non-steroidal ligand is selected from the group consisting of benzoxazin-1-one and A-222977.
- 7. The polypeptide complex of claim 1, wherein an AF2 helix is located in an active position, and wherein atoms in and around a ligand binding site have shifted from their positions in a GR/Dex structure, **characterized by** the atomic coordinates of Table 3, such that fluticasone propionate can be docked into a binding site with a favorable

binding energy and wherein all atoms in the polypeptide are held fixed.

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- 8. The polypeptide complex of claim 7, wherein the non-steroidal ligand is selected from the group consisting of benzoxazin-1-one and A-222977.
- 9. The polypeptide complex of claim 1, further comprising fluticasone propionate and a co-activator peptide.
- 10. The polypeptide complex of claim 9, wherein the crystalline form comprises lattice constants of a = b = 127.656 Å, c = 87.725 Å, $\alpha = 90^{\circ}$, $\beta = 90^{\circ}$, $\gamma = 120^{\circ}$.
- 11. The polypeptide complex of claim 9, wherein the co-activator peptide is a TIF2 peptide.
- 12. The polypeptide complex of claim 9, wherein the complex comprises a hexagonal crystalline form.
- 15. The polypeptide complex of claim 9, wherein the crystalline form has a space group of P61.
 - 14. The polypeptide complex of claim 9, wherein the GR polypeptide comprises a GRα ligand binding domain.
 - 15. The polypeptide complex of claim 15, wherein the $GR\alpha$ polypeptide has the amino acid sequence shown in any one of SEQ ID NOs: 6 or 8.
 - **16.** The polypeptide complex of claim 15, further **characterized by** the atomic structure coordinates shown in Table 2.
 - 17. The polypeptide complex of claim 15, wherein the crystalline form comprises two $GR\alpha$ ligand binding domain polypeptides in the asymmetric unit.
 - 18. The polypeptide complex of claim 15, wherein the complex is such that the three-dimensional structure of the crystallized $GR\alpha$ ligand binding domain polypeptide can be determined to a resolution of about 3.0 Å or better.
 - 19. The polypeptide complex of claim 9, wherein the complex comprises one or more atoms having a molecular weight of 40 grams/mol or greater.
 - 20. A method for determining the three-dimensional structure of a crystallized GR polypeptide complex comprising an expanded binding pocket to a resolution of about 3.0 Å or better, the method comprising:
 - (a) crystallizing a GR ligand binding domain polypeptide; and
 - (b) analyzing the GR ligand binding domain polypeptide to determine the three-dimensional structure of the crystallized GR ligand binding domain polypeptide, whereby the three-dimensional structure of a crystallized GR polypeptide complex comprising an expanded binding pocket is determined to a resolution of about 3.0 Å or better.
 - **21.** The method of claim 20, wherein the reservoir solution comprises 60mM bis-Tris-propane, pH 7.5-8.5, and 1.5-1.7 M magnesium sulfate.
 - 22. The method of claim 20, wherein the co-activator peptide is a TIF2 peptide.
 - 23. The method of claim 20, wherein the GR ligand binding domain comprises one of SEQ ID NO: 6 and SEQ ID NO: 8.
 - **24.** A method of generating a crystallized GR polypeptide complex comprising an expanded binding pocket and a ligand known or suspected to be unable to associate with a known GR structure, the method comprising:
 - (a) providing a solution comprising a GR polypeptide and a ligand known or suspected to be unable to associate with a known GR structure; and
 - (b) crystallizing the GR ligand binding domain polypeptide using the hanging drop method, whereby a crystallized GR polypeptide complex comprising an expanded binding pocket and a ligand known or suspected to be unable to associate with a known GR structure is generated.

- 25. The method of claim 24, wherein the solution comprises 475 mM ammonium acetate, 25 mM NaCl, 50 mM Tris, pH 8.0, 10% glycerol, 10 mM dithiothreitol (DTT), 0.5mM EDTA and 0.05% β-octyl-glucoside.
- **26.** The method of claim 24, wherein a crystallization reservoir solution comprises 60mM bis-Tris-propane, pH 7.5-8.5, and 1.5-1.7 M magnesium sulfate.
- 28. The method of claim 24, wherein the co-activator peptide is a TIF2 peptide.
- 29. The method of claim 24, wherein the GR polypeptide comprises one of SEQ ID NO: 6 and SEQ ID NO: 8.
- 30. A method for identifying a GR modulator, the method comprising:

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- (a) providing atomic coordinates of a GR polypeptide complex comprising an expanded binding pocket to a computerized modeling system; and
- (b) modeling a ligand that fits spatially into the large pocket volume of the GR polypeptide complex to thereby identify a GR modulator.
- 31. A method of designing a modulator that selectively modulates the activity of a $GR\alpha$ polypeptide comprising an expanded binding pocket, the method comprising:
 - (a) providing a crystalline form of a GRα polypeptide complex comprising an expanded binding pocket;
 - (b) determining the three-dimensional structure of the crystalline form of the $GR\alpha$ ligand binding domain polypeptide; and
 - (c) synthesizing a modulator based on the three-dimensional structure of the crystalline form of the GR α ligand binding domain polypeptide, whereby a modulator that selectively modulates the activity of a GR α polypeptide comprising an expanded binding pocket is designed.
- 32. The method of claim 31, wherein the method further comprises contacting a GR α polypeptide with the potential modulator; and assaying the GR α polypeptide for binding of the potential modulator, for a change in activity of the GR α polypeptide, or both.
- 33. A method of forming a homology model of an NR, the method comprising:
 - (a) providing a template amino acid sequence comprising a GR polypeptide comprising an expanded binding pocket;
 - (b) providing a target NR amino acid sequence;
 - (c) aligning the target sequence and the template sequence to form a homology model.
- 34. The method of claim 33, further comprising assigning structural coordinates to the homology model.
- 35. The method of claim 33, wherein the NR is selected from the group consisting of AR, PR, ER, GR and MR.
- **36.** The method of claim **33**, wherein the template amino acid sequence comprises one of the atomic coordinates of Table 2 and a subset of the coordinates of Table 2.
- 37. The method of claim 33, wherein the template amino acid sequence comprises spatial coordinates characterizing an AF2 helix located in an active position, and wherein the spatial coordinates further characterize atoms in residues Met560, Met639, Gln642, Cys643, Met646, and Tyr735 that have shifted from their positions in a GR/Dex structure, **characterized by** the atomic structural coordinates of Table 3, by one of a heavy-atom RMS deviation of at least about 0.50 angstroms and by a backbone heavy-atom RMS deviation of at least about 0.35 angstroms.
- 38. The method of claim 33, wherein the template amino acid sequence comprises spatial coordinates characterizing an AF2 helix located in an active position, and wherein the spatial coordinates further characterize atoms in residues Met560, Met639, Gln642, Cys643, Met646, and Tyr735 that have shifted from their positions in a GR/Dex structure, characterized by the atomic structural coordinates of Table 3, so as to increase the volume of a binding pocket by at least about 5%, compared with a GR/Dex structure characterized by the atomic structural coordinates of Table 3.

- **39.** The method of claim 33, wherein the template amino acid sequence comprises spatial coordinates characterizing an AF2 helix located in an active position, and wherein the spatial coordinates further characterize atoms in and around a ligand binding site that have shifted from their positions in a GR/Dex structure, **characterized by** the atomic structural coordinates of Table 3, so as to accommodate, without atomic overlap, a steroidal ligand with C17-α substituents comprising 2-20 atoms.
- **40.** The method of claim 33, wherein the template amino acid sequence comprises spatial coordinates characterizing an AF2 helix located in an active position, and wherein the spatial coordinates further characterize atoms in and around a ligand binding site that have shifted from their positions in a GR/Dex structure, **characterized by** the atomic coordinates of Table 3, so as to accommodate, without atomic overlap, a non-steroidal ligand.
- 41. The method of claim 33, wherein the template amino acid sequence comprises spatial coordinates characterize an AF2 helix located in an active position, and wherein the spatial coordinates further characterize atoms in and around a ligand binding site that have shifted from their positions in a GR/Dex structure, **characterized by** the atomic coordinates of Table 3, such that fluticasone propionate can be docked into a binding site with a favorable binding energy and wherein all atoms in the polypeptide are held fixed.
- **42.** The method of claim 33, wherein the template amino acid sequence comprises spatial coordinates characterizing an AF2 helix is located in an active position, and wherein the spatial coordinates further characterize atoms in and around the ligand binding site that have shifted from their positions in a GR/Dex structure, **characterized by** the atomic coordinates of Table 3, such that a non-steroidal GR ligand can be docked into the binding site with a favorable binding energy, as computed with molecular modeling software, and wherein all atoms in the polypeptide are held fixed.
- 43. A method of designing a modulator of a nuclear receptor, the method comprising:
 - (a) designing a potential modulator of a nuclear receptor that will make interactions with amino acids in the ligand binding site of the nuclear receptor based upon atomic structure coordinates of a NR polypeptide complex comprising an expanded binding pocket;
 - (b) synthesizing the modulator; and

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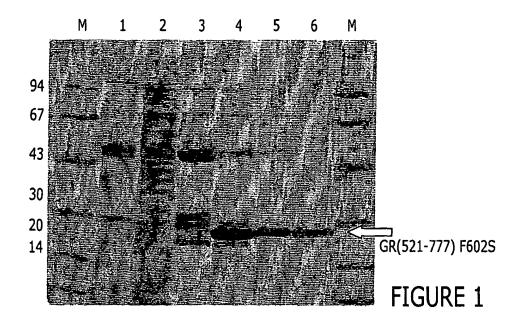
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- (c) determining whether the potential modulator modulates the activity of the nuclear receptor, whereby a modulator of a nuclear receptor is designed.
- 44. The method of claim 46, wherein the potential modulator is a non-steroidal compound.
- 45. The method of claim 46, wherein the potential modulator is a steroid compound.
- 46. A method of modeling an interaction between an NR and a non-steroid ligand, the method comprising:
 - (a) providing a homology model of a target NR generated using a crystalline GR polypeptide complex comprising an expanded binding pocket;
 - (b) providing atomic coordinates of a non-steroid ligand; and
 - (c) docking the non-steroid ligand with the homology model to form a NR/ligand model.
- 45. A method of designing a non-steroid modulator of a target NR using a homology model, the method comprising:
 - (a) modeling an interaction between a target NR and a non-steroid ligand using a homology model generated using a crystalline GR polypeptide complex comprising an expanded binding pocket;
 - (b) evaluating the interaction between the target NR and the non-steroid ligand to determine a first binding efficiency.
 - (c) modifying the structure of the non-steroid ligand to form a modified ligand;
 - (d) modeling an interaction between the modified ligand and the target NR;
 - (e) evaluating the interaction between the target NR and the modified ligand to determine a second binding efficiency; and
 - (f) repeating steps (c)-(e) a desired number of times if the second binding efficiency is less than the first binding efficiency.



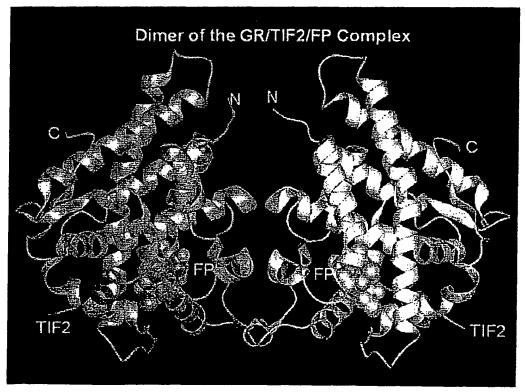


FIGURE 2

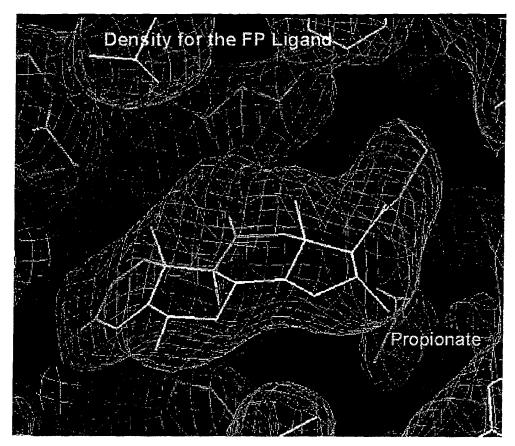


FIGURE 3

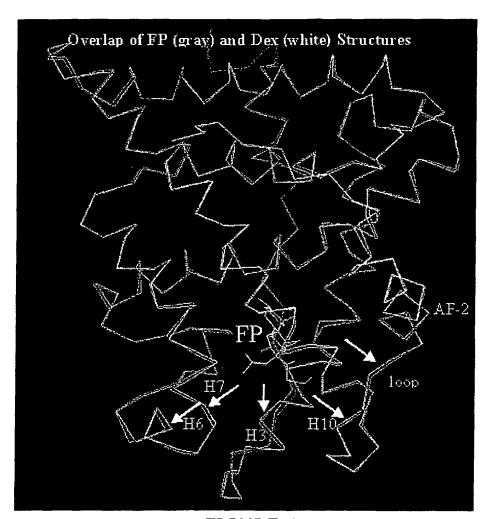
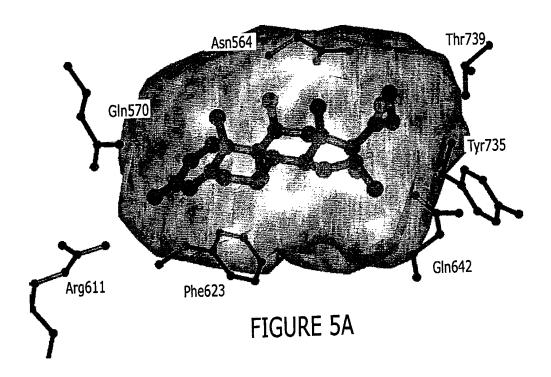
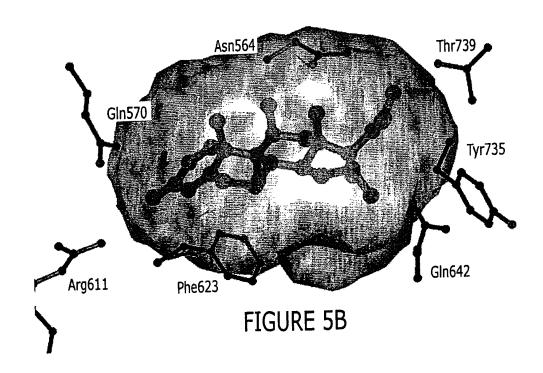
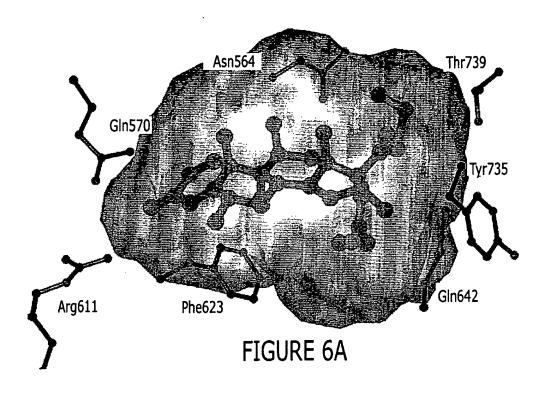
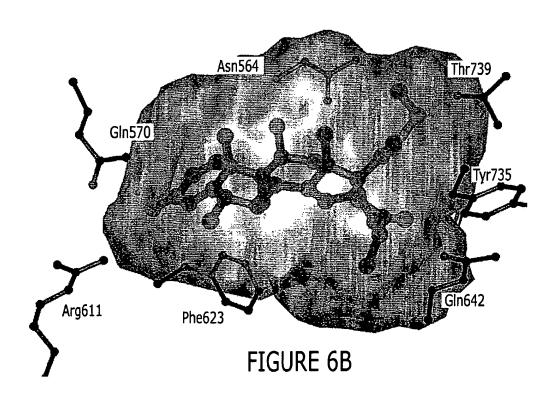


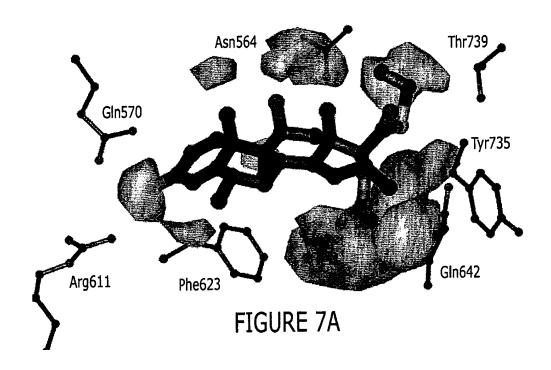
FIGURE 4

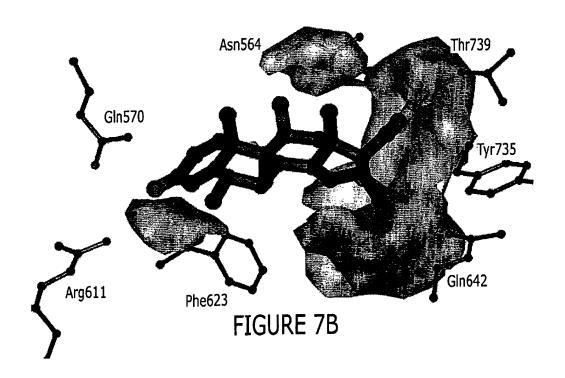


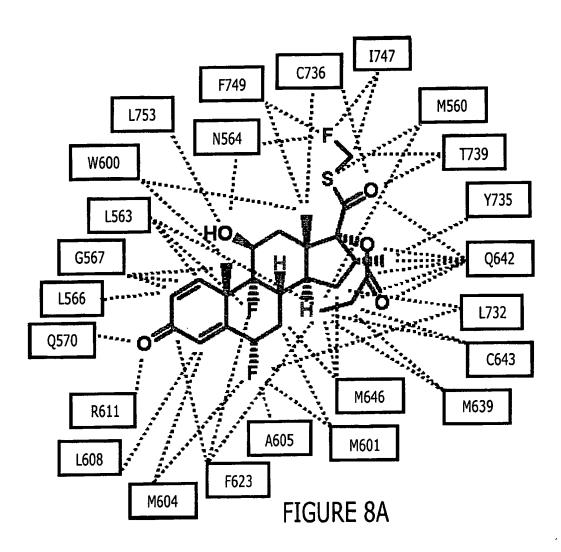


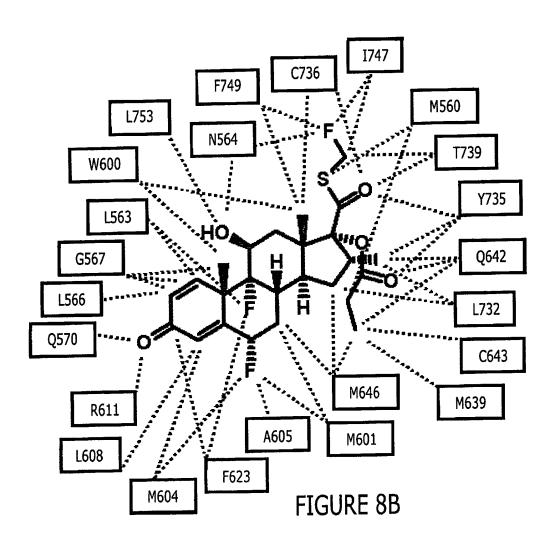












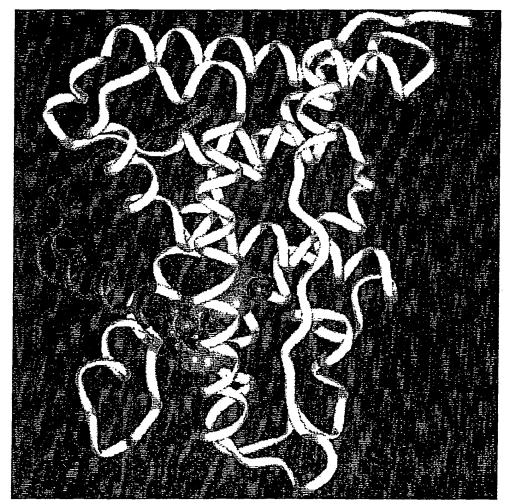


FIGURE 9

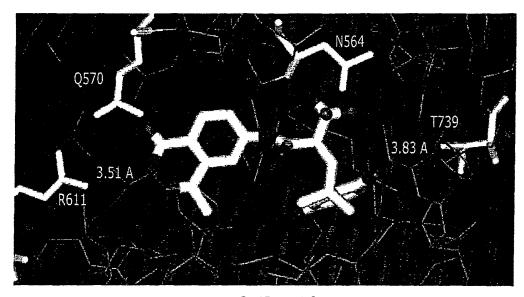


FIGURE 10

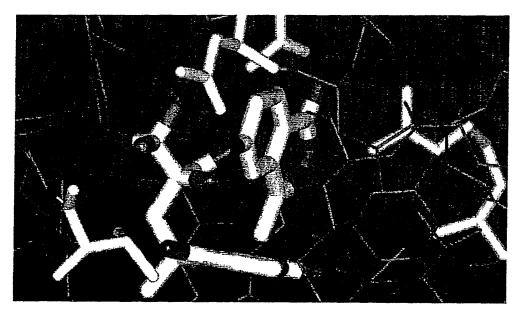


FIGURE 11

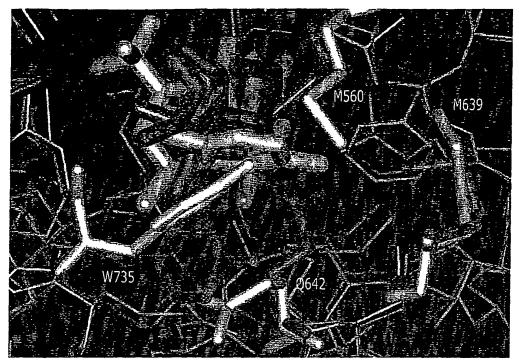


FIGURE 12

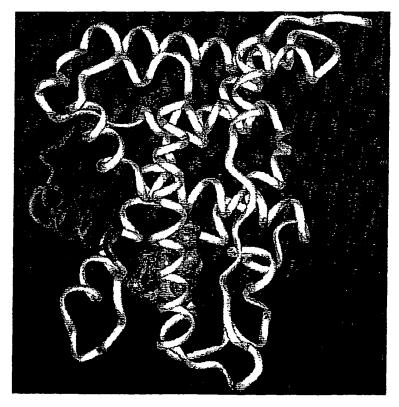


FIGURE 13



FIGURE 14

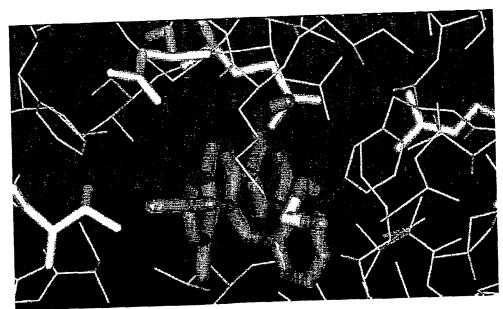


FIGURE 15

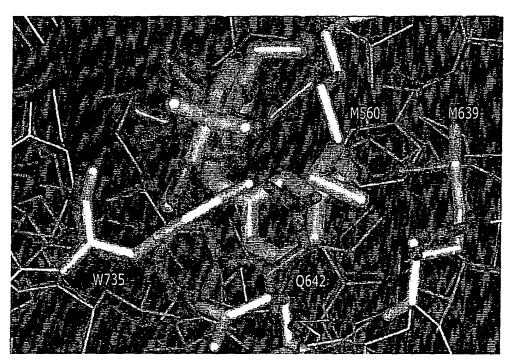


FIGURE 16

GR MR PR AR	527 733 682 668	QLTPTLVSLLEVIEPEVLYAGYDSSVPDSTWRIMTTI ALTESPVMVLENIEPEIVYAGYDSSKPDTAENLLSTL QLIPPLINLLMSIEPDVIYAGHDNTKPDTSSSLITSI ECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALIISSI helix-1
GR MR PR AR	564 770 719 705	NMLGGROVIAAVKWAKAIPGFRNLHLDDQMTLLQYSW NRLAGKQMIQVVKWAKVLPGFKNLPLEDQITLIQYSW NQLGEROLLSVVKWSKSLPGFRNLHIDDQITLIQYSW NELGEROLVHVVKWAKALPGFRNLGVDDQMAVIQYSW helix-3 helix-4
GR MR PR AR	601 807 756 742	MSLMAFALGWRSYROSSANLLCFAPDLIINEQRMTLP MCLSSFALSWRSYKHTNSQFLYFAPDLVFNEEKMHQS MSLMVFGLGWRSYKHVSGCMLYFAPDLILNEQRMKES MGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKS helix-5 beta-3 beta-4 helix-6
GR MR PR AR	638 844 793 779	CMYDOCKHMLYVSSELHRLQVSYEEYLCMKTLLILSS AMYELCQGMHQISLQFVRLQLTFEEYTIMKVLLLLST SFYSLCLTMWQIPQEFVKLQVSQEEFLCMKVLLLLNT RMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSI helix-7 helix-8
GR MR PR AR	675 881 830 816 bet	VPKDGLKSQELFDEIRMTYIKELGKAIVKREGNSSQN IPKDGLKSQAAFEEMRTNYIKELRKMVTKCPNNSGQS IPLEGLRSQTQFEEMRSSYIRELIKAIGLRQKQVVSS IPVDGLKNQKFFDELRMNYIKELDRIJACKRKNPTSC a-5 helix-9
GR MR PR AR	712 918 867 853	WQRFYQLTKLLDSMHEVVENLLNYCFQTFLD-KTMSI WQRFYQLTKLLDSMHDLVSDLLEFCFYTFRESHALKV SQRFYQLTKLLDNLHDLVKQLHLYCLNTFIQSRALSV SRRFYQLTKLLDSWQPIARELHQFTFDILIKSHMVSV helix-10
GR MR PR AR	748 955 904 890	EEPEMLAEIITNQIPKYSNGNIKKLLFHQK EFPAMLVEIISDQLPKVESGNAKPLYFHRK EEPEMMSEVIAAQLPKILAGMVKPLLFHKK DEPEMMAEIISVQVPKILSGKVKPIYFHTQ helix-AF beta-6

FIGURE 17

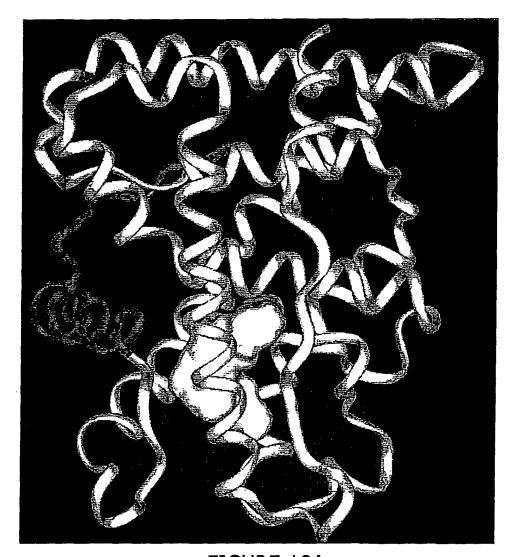


FIGURE 18A

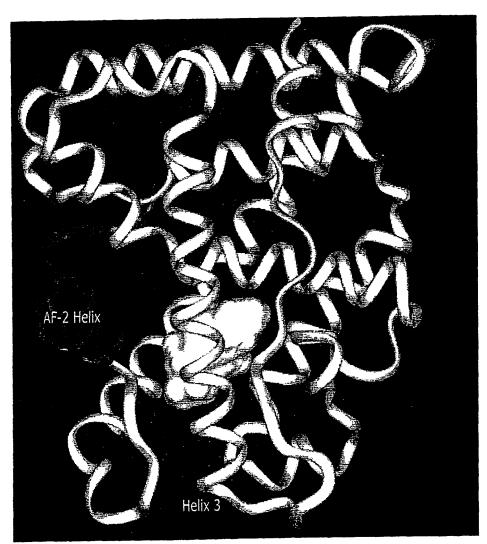


FIGURE 18B

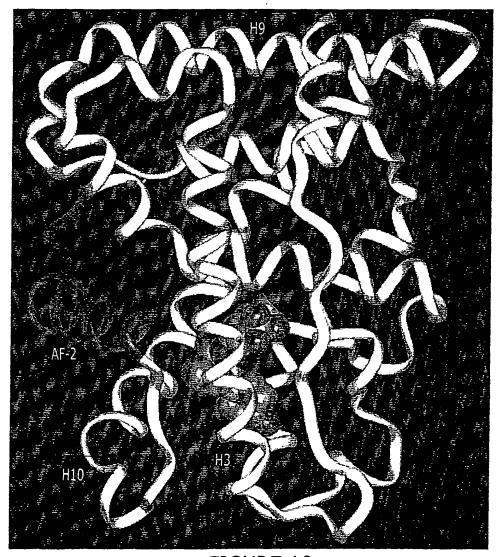


FIGURE 19

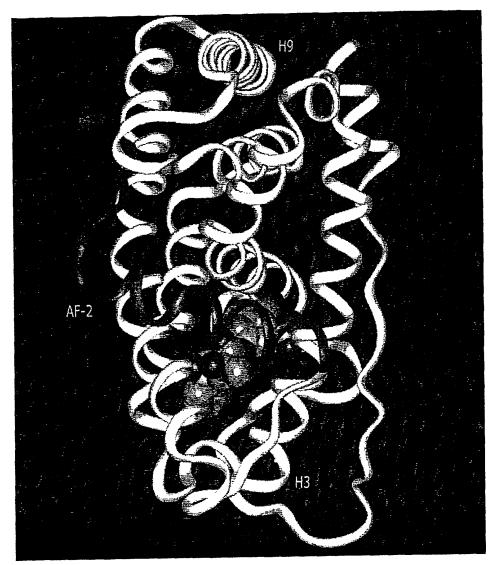


FIGURE 20

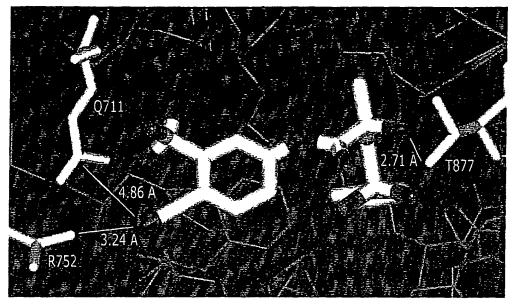


FIGURE 21

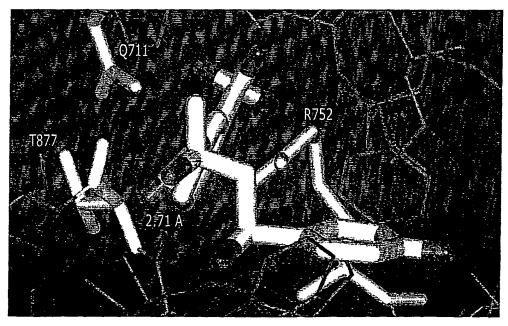


FIGURE 22

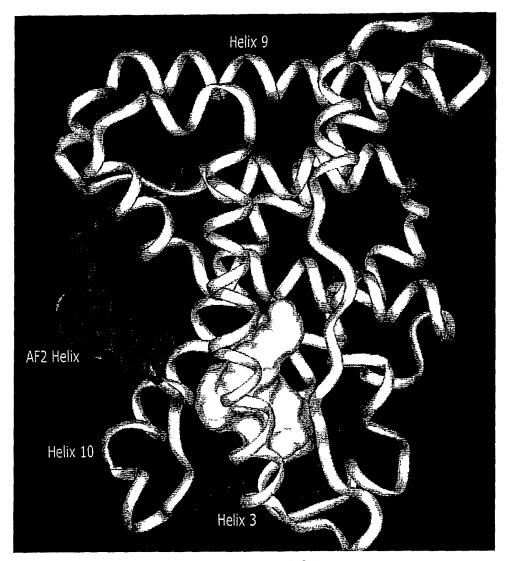


FIGURE 23A

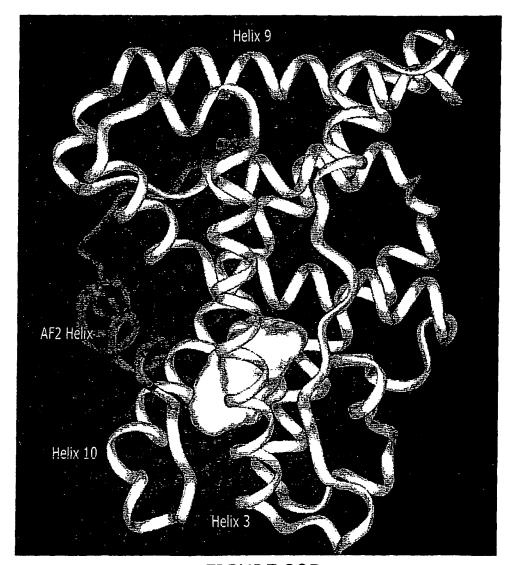


FIGURE 23B

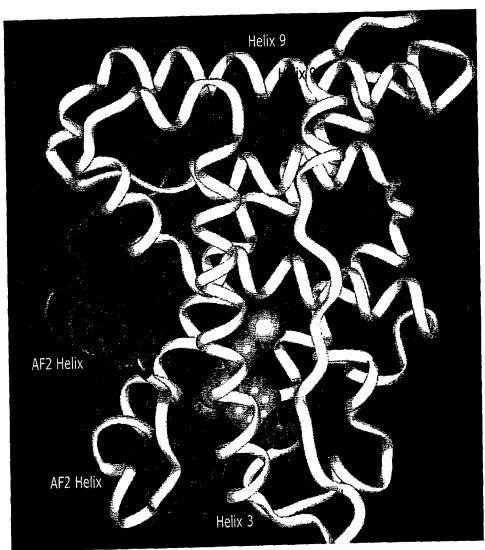


FIGURE 24

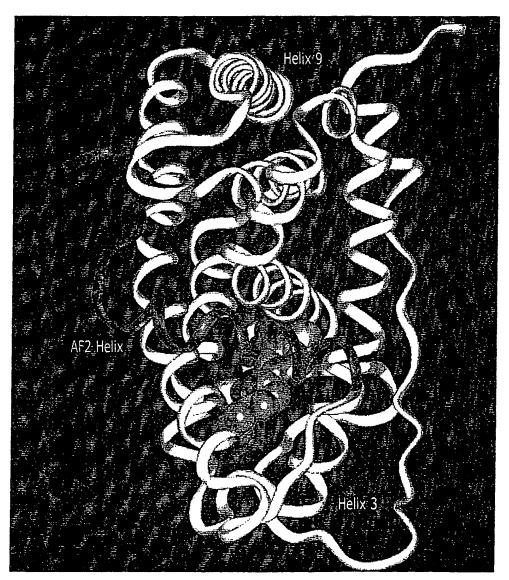


FIGURE 25

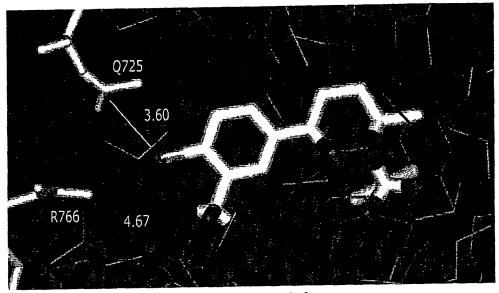


FIGURE 26

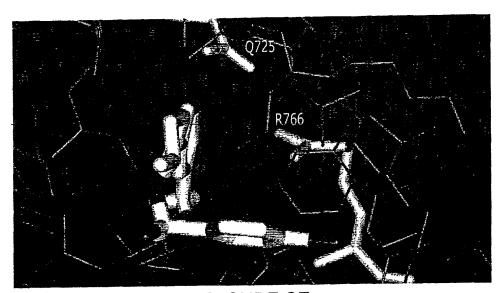


FIGURE 27

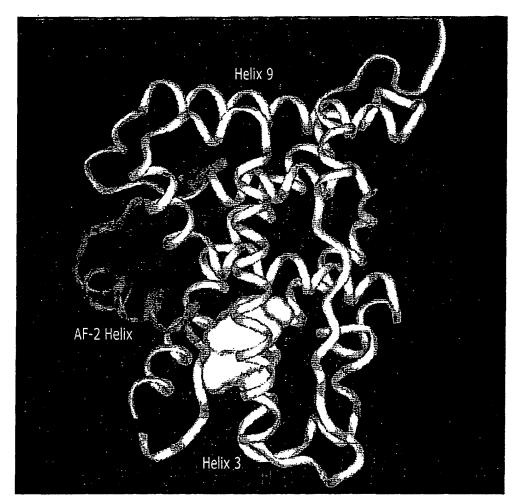


FIGURE 28A

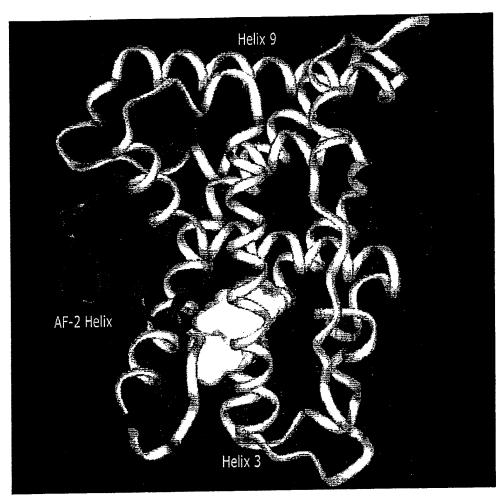


FIGURE 28B



EUROPEAN SEARCH REPORT

Application Number

EP 03 07 6899

	DOCUMENTS CONSID	ERED TO BE RELEVANT				
Category	Citation of document with i of relevant passe	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)			
A	AND EXPRESSION OF A GLUCOCORTICOID RECONSTRUCTION OF A GLUCOCORTICO OF A GLUCOCORTICOID RECONSTRUCTION OF A GLUCOCORTICOID RECONSTRUCTION OF A GLUCOCORTICOID RECONSTRUCTION OF A GLUCOCORTICOI	EPTOR CDNA" JOURNALS LTD. LONDON, Der 1985 (1985-12-19), 20611470	1-47	C07K14/72 G06F19/00		
A	CURRENT OPINION IN CURRENT BIOLOGY LTD	ober 2000 (2000-10), 02208529	1-47			
	of progesterone con receptor" NATURE, MACMILLAN C GB, vol. 393, no. 6683,	OURNALS LTD. LONDON,	1-47	TECHNICAL FIELDS SEARCHED (Int.Cl.7) C07K G06F		
		PIX THERAPEUTICS LTD PIERRE (GB); RAY DAVID (2-05-10)	1-47			
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	The present search report has b	<u> </u>	<u> </u>			
	Place of search	Date of completion of the search	_	Examiner		
CA* X : partic Y : partic	MUNICH TEGORY OF CITED DOCUMENTS sularly relevant if taken alone sularly relevant if combined with anoth next of the same antenory		underlying the sument, but public the application	lished on, or		
document of the same category A : technological background O : non-written disclosure P : intermediate document			L : document cited for other reasons & : member of the same patent family, corresponding document			

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	DOCUMENTS CONSIDE	RED TO BE RELEVANT		
Category	Citation of document with inc	dication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
A	DEY R ET AL: "Homo	logy modelling of the in of glucocorticoid ite interactions with osterone , OXFORD UNIVERSITY	1-47	
P,X	WO 03 015692 A (APO;LAMBERT MILLARD H BEEC) 27 February 2 * the whole documen	III (US); SMITHKLINE 003 (2003-02-27)	1-47	
Ρ,Χ	the glucocorticoid domain reveals a no dimerization and co CFIL. CELL PRESS. C	002 (2002-07-12), pages		TECHNICAL FIELDS SEARCHED (Int.CI.7)
A	WO 00 52050 A (GREE MIKAEL (SE); KAROBI 8 September 2000 (2 * the whole documen	000-09-08)	1-47	
	The present search report has I	been drawn up for all claims		
	Place of search	Date of completion of the search		Examiner
X:pa	MUNICH CATEGORY OF CITED DOCUMENTS chicularly relevant if taken alone	21 August 2003 T: theory or princip E: earlier patent de after the filing de	le underlying the current, but publite	ished on, or
Y:par doc A:tec O:no	rticularly relevant if combined with anot sument of the same category shnological background n-written disclosure ermediate document	L : dooument cited	or other reasons	

EP 1 375 517 A1

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	Patent documer cited in search rep		Publication date		Patent fam member(s	illy 3)	Publication date
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WO	0052050	A	08-09-2000	AU WO	2818200 0052050		21-09-200 08-09-200
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